

**WATERSHORE AND BEACH ADVISORY COMMITTEE**

**Two (2) vacancies with terms ending 12-11-2025, representing the following preferred, but not required categories: 2 - At-Large.**

**Duties**

The Watershore and Beach Advisory Committee advises and makes recommendations regarding use or preservation of the following areas within the city limits: the waterfront, the beaches, and the natural bodies of water, including, but not limited to: Gulf of Mexico, bays, rivers, and creeks, excluding the Marina area as defined by Section 2-264.

**Composition**

Nine (9) members appointed by the City Council for two-year terms. Membership in one or more of the following categories is preferred but not required: Scientist, i.e., Marine Biologist, Engineer, Environmentalist, owner or representative of a hotel or condominium located on North Padre Island or Mustang Island, and a board member of the Corpus Christi Convention & Visitors Bureau. The Chairperson of the Watershore and Beach Advisory Committee shall act as an advisor to the Parks and Recreation Advisory Committee and vice versa.

**Creation/Authority**

Section 2-80, Code of Ordinances, Ord No. 027408, 9/11/07; Ord. No. 027523, 12/11/07; Ord. No. 029985, 10/22/13; Ord. 032058 - 3-17-2020

**Meets**

1st Thursday of every month at 5:30 p.m.,  
6th floor conference room City Hall

**Members size**

9

**Term length/limit**

2 years / 6 years

**Staff Liaison**

Martha Lawhon

Name	District	Term	Appt. date	End date	Appointing		Status	Category
					Authority	Position		
Rachel M. Pittman	District 4	1	12/12/2023	12/11/2025	City Council		Resigned	
Philip J. Blackmar	District 4	1	9/13/2022	12/11/2025	City Council		Resigned	
David S. Zill	District 4	1	1/24/2023	12/11/2024	City Council		Active	
Larisa A. Ford	District 4	2	1/14/2020	12/11/2024	City Council	Vice-Chair	Active	
Armon D. Alex	District 3	1	1/24/2023	12/11/2024	City Council		Active	Scientist
Scott A. Lawson	District 5	1	8/31/2021	12/11/2024	City Council		Active	
Harrison A. McNeil	District 4	3	1/14/2020	12/11/2025	City Council	Chair	Active	Environmentalist
Ruben Macias Jr.	District 5	2	12/7/2021	12/11/2025	City Council		Active	
Kathryn Hyatt	District 1	1	12/12/2023	12/11/2025	City Council		Active	CVB

## WATERSHORE AND BEACH ADVISORY COMMITTEE

### Applicants

<b>Name</b>	<b>District</b>	<b>Status</b>	<b>Category</b>
Glenn A. Duhon Jr.	District 3	Applied	At-Large
Janie Gifford	District 4	Applied	At-Large
Michael J Starek	District 4	Applied	At-Large Scientist i.e., Marine Biologist Engineer

### Application for a City Board, Commission, Committee or Corporation

#### Profile

Mr. Glenn A. Duhon Jr.  
Prefix First Name Middle Initial Last Name Suffix

[Redacted]  
Email Address

[Redacted]  
Street Address

Corpus Christi TX 78413  
City State Postal Code

[Redacted]  
Primary Phone

[Redacted]  
Alternate Phone

#### What district do you live in? \*

District 3

#### Current resident of the City of Corpus Christi?

Yes  No

#### If yes, how many years?

1.5

Maxwell P. Dunne Funeral Service Managing Director  
Employer Job Title

#### Work Address - Street Address and Suite Number

5921 Yorktown Blvd

#### Work Address - City

Corpus Christi

#### Work Address - State

Texas

#### Work Address - Zip Code

78414

Mr. Glenn A. Duhon Jr.

**Work Phone**

361-884-2411

**Work E-mail address**

glenn.duhon@maxwellpdunne.com

**Preferred Mailing Address**

Work Address

**Which Boards would you like to apply for?**

WATERSHORE AND BEACH ADVISORY COMMITTEE: Submitted

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**Interests & Experiences**

**Are you a Nueces County registered voter?**

Yes  No

**Do you currently serve on any other City board, commission or committee at this time? If so, please list:**

No

**Education, Professional and/or Community Activity (Present)**

Masters in Architecture - Texas A&M (College Station) Banker and Bank Management for 20 years  
Funeral Director and Funeral Home Management - 13 years. Previous experience with City of Bryan boards: Economic Development (Chair), Parks & Rec (Chair), Zoning

**If you applied for multiple boards, which boards are you most interested in serving on, in order of preference? (Limit to top three)**

Any with a need.

**Why are you interested in serving on a City board, commission or committee?**

I served with the City of Bryan for many years and find it rewarding to be active and involved.

**Are you an ex-Officio member of a City Board, commission or committee?**

Yes  No

**No person shall be appointed by the Mayor or Council Members to serve on more than one board, commission, committee or corporation at the same time. If you currently serve as a voting member for a board, commission, committee or corporation are you willing to resign your current seat to serve on another board, commission, committee or corporation?**

Yes  No

Mr. Glenn A. Duhon Jr.

Are you a current candidate in an election for a non-city public office?

Yes  No

Do you currently serve as an elected official for a non-city public office?

Yes  No

Will you seek re-election to the non-city public office? If not in a non-city public office, please enter N/A

N/A

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## Demographics

### Gender

Male

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## Code of Ethics - Rules of Conduct/Conflicts of Interest

Do you represent any person or organization in any claim or lawsuit or proceeding involving the City?

Yes  No

Do you, your spouse, your business or your spouse's business have a City contract?

Yes  No

Does your employer or your spouse's employer have a City contract?

Yes  No

Are you involved with any activities or employment that would conflict with the official duties on the City boards for which you are applying?

Yes  No

Are you, your spouse, your business or your spouse's business involved in any pending bid, proposal or negotiation in connection with a contract with the City?

Yes  No

Do you or your spouse have a pending claim, lawsuit or proceeding against the City?

Yes  No

If you answer "Yes" to any of the questions above, please explain or ask to speak with the City's Legal Department. If you answer "NO" to all questions above, please enter N/A.

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N/A

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**Board-specific questions (if applicable)**

Question applies to CORPUS CHRISTI CONVENTION & VISITORS BUREAU

**The Convention & Visitors Bureau Board must include representatives from certain categories. Do you qualify for any of the following categories? \***

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None of the above

Question applies to WATERSHORE AND BEACH ADVISORY COMMITTEE

**The Watershore & Beach Advisory Committee must include members representing certain categories. Do you qualify for any of the following categories? \***

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None of the above

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**Verification**

Mr. Glenn A. Duhon Jr.

**City Code Requirement - Residency**

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As a board, commission, or committee member, you will be asked to adhere to City Code of Ordinances, Section 2-65, which states that all members of City boards and commissions, including ad hoc committees, appointed by the City, must be residents of the city. A move outside the city limits of the city by any member shall constitute automatic resignation from the particular board or commission on which such member served.

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I Agree

**City Code Requirement - Attendance**

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As a board, commission, or committee member, you will be asked to adhere to City Code of Ordinances, Section 2-61, which provides that absences from more than 25% of regularly scheduled meetings during a term year on the part of any board, commission, or committee member shall result in an automatic termination. An absence shall be deemed unexcused unless excused by the board, commission or committee for good cause no later than its next meeting after the absence.

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I Agree

**Consent for Release of Information**

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I understand that if any member of the public makes a request for information included in this application or in any attachment (e.g. resume or supporting documentation) for appointment it is subject to and must be disclosed under the Texas Public Information Act. I understand that under the Texas Public Information Act, my home address and home telephone number is subject to public disclosure unless I am elected or appointed to the position which I seek. I hereby consent to the release of my home address and home telephone number should it be requested under the Texas Public Information Act prior to my possible appointment or election. I hereby release the City of Corpus Christi, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Texas Public Information Act.

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I Agree

**Oath**

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I swear that all of the statements included in my application and attached documents, if any, are true and correct.

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I Agree

# Application for a City Board, Commission, Committee or Corporation

## Profile

Janie \_\_\_\_\_ Gifford \_\_\_\_\_  
First Name Last Name

\_\_\_\_\_  
Email Address

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
Suite or Apt

Corpus Christi \_\_\_\_\_  
City

TX \_\_\_\_\_ 78418 \_\_\_\_\_  
State Postal Code

\_\_\_\_\_  
Primary Phone

\_\_\_\_\_  
Alternate Phone

### What district do you live in? \*

District 4

### Current resident of the City of Corpus Christi?

Yes  No

### If yes, how many years?

17

Coastal Bend Employment \_\_\_\_\_ Recruiter \_\_\_\_\_  
Employer Job Title

### Work Address - Street Address and Suite Number

14493 SPID Suite A

### Work Address - City

Corpus Christi

### Work Address - State

Texas

### Work Address - Zip Code

78418



**Work Phone**

3615855068

**Work E-mail address**

coastalbendemployment@outlook.com

**Preferred Mailing Address**

Work Address

**Which Boards would you like to apply for?**

WATERSHORE AND BEACH ADVISORY COMMITTEE: Submitted

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**Interests & Experiences**

**Are you a Nueces County registered voter?**

Yes  No

**Do you currently serve on any other City board, commission or committee at this time? If so, please list:**

No.

**Education, Professional and/or Community Activity (Present)**

Paralegal Studies - Del Mar BAAS in Criminal Justice - TAMUCC 2021 MBA TAMUCC - currently pursuing

**If you applied for multiple boards, which boards are you most interested in serving on, in order of preference? (Limit to top three)**

I am most interested in padre island business and waterfront/beach committees.

**Why are you interested in serving on a City board, commission or committee?**

I love my home, I want to see good things happen for it and I want to be a part of its development.

Upload a Resume

**Are you an ex-Officio member of a City Board, commission or committee?**

Yes  No

No person shall be appointed by the Mayor or Council Members to serve on more than one board, commission, committee or corporation at the same time. If you currently serve as a voting member for a board, commission, committee or corporation are you willing to resign your current seat to serve on another board, commission, committee or corporation?

Yes  No

Are you a current candidate in an election for a non-city public office?

Yes  No

Do you currently serve as an elected official for a non-city public office?

Yes  No

Will you seek re-election to the non-city public office? If not in a non-city public office, please enter N/A

n/a

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## Demographics

### Gender

Female

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## Code of Ethics - Rules of Conduct/Conflicts of Interest

Do you represent any person or organization in any claim or lawsuit or proceeding involving the City?

Yes  No

Do you, your spouse, your business or your spouse's business have a City contract?

Yes  No

Does your employer or your spouse's employer have a City contract?

Yes  No

Are you involved with any activities or employment that would conflict with the official duties on the City boards for which you are applying?

Yes  No

Are you, your spouse, your business or your spouse's business involved in any pending bid, proposal or negotiation in connection with a contract with the City?

Yes  No

Do you or your spouse have a pending claim, lawsuit or proceeding against the City?

Yes  No

If you answer "Yes" to any of the questions above, please explain or ask to speak with the City's Legal Department. If you answer "NO" to all questions above, please enter N/A.

n/a

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**Board-specific questions (if applicable)**

Question applies to PORT OF CORPUS CHRISTI AUTHORITY OF NUECES COUNTY, TX

**(For Port of CC) Are you a resident of the Port Authority district and an elector\* of Nueces County?**

Yes  No

Question applies to PORT OF CORPUS CHRISTI AUTHORITY OF NUECES COUNTY, TX

**(For Port of CC) Have you been a resident of Nueces County for at least 6 months?**

Yes  No

Question applies to WATERSHORE AND BEACH ADVISORY COMMITTEE

**The Watershore & Beach Advisory Committee must include members representing certain categories. Do you qualify for any of the following categories? \***

None of the above

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Are you a resident and will have resided in the County Appraisal District for at least 2 years before assuming office on January 1st? (Mandatory: Must meet both criteria)**

Yes  No

Janie Gifford

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Do you currently serve on any District Taxing Unit's governing board? (Yes or no remain eligible)**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Are you an employee of any of the District's Taxing Units? (Mandatory: If just employee, then ineligible. If employee and also on governing board or elected official of a taxing unit, then remains eligible).**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Are you related within 2nd degree by consanguinity or affinity (per Chapter 573 Government Code) to an appraiser of Property for Compensation for use in proceedings at the District or represent any property owner(s) in such proceedings? (Yes to either = disqualified)**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Do you own any property on which taxes are delinquent more than 60 days after the date you know or should have known? Exceptions are: (1) Delinquent taxes + penalties / interest being paid in installment agreement (2) Suit to collect is deferred or abated under 33.06 or 33.065**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Have you served on the District's board for all or part of 5 terms? Exception are: (1) Was Tax Assessor – Collector at the time**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Were you engaged in the business of appraising property for compensation for use in any District proceedings at any time in the preceding 3 years?**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Were you engaged in the business of representing property owners for compensation in proceedings at the District at any time during the preceding 3 years?**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Were you an employee of the District at any time in the last 3 years?**

Yes  No

Question applies to NUECES COUNTY TAX APPRAISAL DISTRICT

**Are you a business in which you have a substantial interest a party to a contract with either (1) the Appraisal District or (2) a taxing unit that participates in the District if the contract relates to the performance of an activity governed by the Texas Property Tax Code?**

Yes  No

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### Verification

#### City Code Requirement - Residency

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I Agree

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I understand that if any member of the public makes a request for information included in this application or in any attachment (e.g. resume or supporting documentation) for appointment it is subject to and must be disclosed under the Texas Public Information Act. I understand that under the Texas Public Information Act, my home address and home telephone number is subject to public disclosure unless I am elected or appointed to the position which I seek. I hereby consent to the release of my home address and home telephone number should it be requested under the Texas Public Information Act prior to my possible appointment or election. I hereby release the City of Corpus Christi, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Texas Public Information Act.

I Agree

**Oath**

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**I swear that all of the statements included in my application and attached documents, if any, are true and correct.**

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I Agree

# Janie Gifford

14493 SPID Suite A PMB 343, Corpus Christi, TX 78418

(361) 585-5068

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## EDUCATION

GULF COAST FLIGHT TRAINING, LLC.

- March 2023 Admission
- March 2025 Expected Graduation Date

TEXAS A&M UNIVERSITY Corpus Christi TX / **MBA Candidate**

- Fall 2022 Admission
- Fall 2024 Expected Graduation Date

TEXAS A&M UNIVERSITY Corpus Christi TX / **BAAS in Criminal Justice**

- Mechanical Engineering 2 years
- Criminal Justice Program COMPLETED Fall 2021

DEL MAR Corpus Christi TX

- Accounting 2 years
- Paralegal Studies program 2 years COMPLETED

INCARNATE WORD ACADEMY Corpus Christi TX

- Middle & High school attendance

## RELEVANT EXPERIENCE

### Recruiter

COASTAL BEND EMPLOYMENT, LLC November 2022 - Present

- File all formation paperwork and tax information
- Create all contracts and rate sheets
- Create website, LinkedIn page, Facebook page, Instagram page
- Create advertisement letters, stamps, flyers
- Manage media and advertisements
- Create resume building website portal
- Prospect companies and candidates
- Gain membership to organizations, maintain professionalism, attend all mixers, luncheons, volunteer events
- Create volunteer and drive opportunities to support the community
- Create resumes for individuals
- Create operational excel sheets to manage expenses, contacts, and all company activity
- Conduct interviews, drug testing, background checks
- Maintain confidentiality and professionalism towards companies and individuals
- Partnering with Del Mar to create social services and charity items for students
- Giving talks about career options to students – STVT/Del Mar

- Attending job fairs

**Recruiter (TEMP Position until Fall 2022 MBA Begins)**

UNIQUE EMPLOYMENT SERVICES December 2021 – September 2022

- Interview, background check, and drug test candidates
- Advise on skills and how to obtain them
- Create resumes
- Interface with companies and determine their needs
- Write contracts, research financial background of company, determine worker comp code
- Marketing and recruiting
- Collect time sheets and help with collections
- Help resolve issues between clients and employees
- Write job descriptions, help determine hourly pay rates
- Join organizations to represent company and obtain contracts

**Temp Paralegal and Accounting Assistant**

BANDAS LAW FIRM, P.C. November 2021

- Combine 3 attorney's caseloads into one litigation filing system.
- File all outstanding paperwork into new litigation filing system.
- Create 2020 and 2021 filing system for accounting department, divided into clients and vendors.
- File into accounting system and bring current.
- Accounting department, verify accounts paid with specific checks.
- Accounting, extract all employee transactions and move to separate filing system.

**Temp Paralegal (Hiring Partner Retired)**

LAW OFFICES OF BARKER & FANCHER November 2018 – December 2018

- E-Filing Documents
- Drafting Pleadings and other documents for review
- Updating and closing cases
- Keeping deadlines and reminding other staff
- Court running/document delivery
- Secretary duties
- Records maintenance

**Temp Receptionist/Court Runner (Firm Closed, Partner Retired)**

LAW OFFICES OF GONZALEZ & LOPEZ April 2018 – August 2018

- Greeting, scheduling, calling clients
- Interacting with District Clerk's office
- E-Filing documents
- Interacting with, requesting information from Corpus Christi Police Department
- Running files/documents to Court and to other firms
- Handling and entering all forms of client payment
- Clio software familiarity
- Opening, updating, and closing client files
- Handling all outgoing mail, including large flats, certified mail, and mailing outside the USA
- Drafting/assisting with pleadings and other forms
- Maintaining office supplies and printers
- Assisting tenants and accepting rent checks/payments



- Maintaining office; clean desks, kitchen surfaces, water plants, keep fridge stocked
- Interacting with the OAG, filing requests, etc.
- Run errands: pick up supplies, food, mail, personal errands to the employers
- Archiving files and uploading current cases to online data base

### **Paralegal**

LAW OFFICES OF TOM GIFFORD April 2016 – April 2018

- Typing up dictation in proper form
- Greeting clients and taking calls
- Managing social networking
- Assisting with billing
- Technical support
- Personal errands
- Mailing correspondence
- Completing forms for wills and trusts
- Pulling forms to create new documents, such as divorces
- Interacting with courthouse
- Interacting with jails and police officers
- Reviewing evidence
- Putting case information and forms together
- Attending Texas Bar Association Meetings

### **Dispatcher/Project Manager Assistant/Collector/Payroll**

AC DISTRIBUTION March 3<sup>rd</sup>, 2014 – April 1<sup>st</sup>, 2016

- Dispatching technicians
- Opening, closing, and billing a project
- Issuing and receiving material on a purchase order
- Payroll entering and processing for 100+ employees
- Hourly, salary, and piece pay familiarity
- Utilizing GPS to verify worked hours
- Scanning and filing relevant project documents
- Creating work orders for service and warranty calls
- Telephone and customer relations experience
- Submitting permits to the city and calling for/tracking inspections
- HR assistant
- Uniform inventory recording
- Finding vendors
- Handling returned mail
- Menial office duties
- Quick at learning other duties
- Auditing and recording invoices to prevent side work
- Collecting on past due invoices
- Run credit cards, handle cash and checks
- Man the front desk to handle customers and provide counter sale service
- Billing customers
- Stocking uniforms, returned or destroyed uniform receiving, and maintaining a vendor list

### **Temp Admin Assistant**

AEP TEXAS December 2013 - January 2014

- Archiving/filing papers, recreating filing system.

- Creating, issuing, and completing POs, Returns, Transmissions, Material Requests, and Issues.
- Warehouse inventory, counting stock and re-ordering
- Phantom facility familiarity, Asset Suite familiarity, and Partial.

#### **OTHER EXPERIENCE**

##### **Temp Hostess (Grand Re-opening/Closed)**

LEXINGTON BAR AND GRILL March 1<sup>st</sup>, 2016 – April 1<sup>st</sup>, 2016

- Greeting and seating customers/handling upset customers
- Handling cash
- Cleaning the restaurant including tables, windows, and bathrooms
- Waitstaff duties
- Handling alcohol
- Overseeing waitresses and deciding which customers they will be working with

##### **Restock/Floor Assistance (Summer Hire)**

OCEAN TREASURES May 2016 – October 2016

- Restock merchandise to the floor
- Greet and assist customers
- Monitor for theft
- Help with golf course opening/closing
- Empty trash, dry mop floors, clean bathrooms, ensure all doors are locked

##### **Hostess/Busboy/Kitchen Prep/Prep cook/Pizza Line/Delivery/Dish**

ISLAND ITALIAN October 2016 – 2017 (Hurricane Harvey destroyed roof) /January 2019 – August 2020

- Seat customers, take care of any customer needs
- Manage servers, assist if necessary
- Bus and wipe all tables
- Run food and alcohol
- Handle cash and answer phones
- Clean entire seating area at closing
- Coordinate events – set up the floor and prep all foods
- Kitchen prep - all items
- Pizza line – all orders and restock
- Delivery
- Disher
- Receive trucks/place restock orders
- Prep all foods – all lines
- Special orders

##### **Dish Washer/Fry Cook/Prep/Baker/Expo**

SCUTTLEBUTTS October 2017 – February 2018

- Wash all dishes and put away
- In-House Bakery line – make all desserts, produce orders, unload delivery trucks
- Morning line cook for buffets and kitchen prep – all soups, bacon, breads, etc.
- Fry line – make all orders

- Expo line – finalize all plates, make all salads, keep FOH staff in order on busy days

### **Cashier/Catering (Temp Work/Student)**

CORNER BAKERY CAFE September 2018 – December 2018

- Handle cash
- Take orders, expo and run food
- Prepare, deliver, and set up catering orders
- Prepare and display baked goods
- Maintain restaurant (clean surfaces, remove trash, bus)

### **Server/Bartender/Cook**

COSTA SUR April 2023 - Present

- Handle cash
- Handle alcohol
- Seat guests
- Take orders, input orders, run food, answer menu questions, specialty food changes
- Bus /wipe/set tables and wash all dishes/silverware/polish glassware

### **General Duties**

DUNKIN DONUTS

- Prepare all coffee and donuts prior to opening and remove at closing
- Handling cash and drive through orders
- Food preparation
- Maintaining seating area

### **Assistant**

361 MOTORSPORTS April 2013 – October 2017

- Replacing brake pads, examining emergency brakes, cleaning intake manifolds, and smoke testing.
- Using Dynamometer, operating lift, using cherry picker.
- EGR Delete on Dodge Ram 3500.
- Paint job for bumper, frame rails, and grill.
- Yamaha airbox removal.
- 240 sx mounting turbo, replacing water lines, power steering mounting, intake filter upgrade, pipe elbow upgrades, battery cleaning and replacing, rerouting wire, fuel pump replacement, and charcoal canister deletion.
- Refilling coolant, power steering fluid, and oil change.
- Installing shocks, rotors, and upper control arms 2005 Jeep Rubicon.
- Interior removal for Nissan 300zx, pulled engine, pulled turbo, and pulled fuel rails.
- Engine work for Audi '95 S6 and 2005 Jeep Rubicon Unlimited.
- Attaching/sealing flex duct and assisting with energy rating.
- Gutting and replacing exhaust, replacing fuel filters, creating new terminals, coolant rerouting kits.
- Build battery bracket and mount battery.
- Install turbo, upgrade to higher flow airbox, upgrade electrical to move system in engine bay.
- Heat spray, heat wrap, and install headers.
- Oil changes 1990 MX-5, 2005 Z4M, 2003 Trail Blazer, 300 ZX, 2005 Rubicon, 240 SX.

- Clean gutted electrical compartment and install new wiring to connect head unit for audio system.
- Dyno events: Little River Dragway, Corpus Christi Heat Wave, Drift Corpus, and Texas Mile 2013.

### **Court Runner**

LAW OFFICES OF THOMAS GIFFORD June 2009 – September 2009

- Menial tasks and office work; cleaning, food pick-up, and organizing.
- Answering phones and greeting clients.
- Sorting confidential files and handling cash and checks.
- Filing papers with the courts and maintaining office records.
- Transmitting information or documents by mail and facsimile machine.
- Handling cash and checks.
- Maintaining office equipment and supplies.

### **Assistant to the DEPTH Coordinator**

MOUNTAIN VALLEY HEALTH CENTER August 2011 – June 2012

- Interacting with and enrolling DEPTH members.
- Sorting confidential files and client information.
- Filing and retrieving corporate documents, records, and reports.
- Compiling information gathered in meetings.
- Providing clerical support to the accounting department.
- Performing general office duties, such as maintaining records and creating spreadsheets or documents.
- Conducting research, compiling data, and preparing papers for upcoming events and consideration by executives, committees, and boards of directors.
- Reading and analyzing incoming memos, submissions, and reports to determine their significance to the DEPTH Program.
- Wrote an article for the local newspapers about DEPTH.
- Promoting DEPTH through fliers, events, emails, phone calls, word of mouth, and member induction.
- Closing out and storing files, and submitting final reports.
- Accounting for spent monies.
- Preparing reports for Tides Board.

## **CERTIFICATIONS**

### **Human Resources**

Training Seminar 2014

- Hiring and interview training.

### **Human Resources**

Training Seminar 2022

- Interviewing Skills for Supervisors 1/2022
- Handling Employee Complaints 1/2022
- Customer Service Skills 1/2022

## **AWARDS**

### **Photography Vibes**

Honorary Printed Photography Finalist 2012

- Contest finalist and winner with plaque and published photography.

## **CLUBS AND ORGANIZATIONS**

### **Associated Builders and Contractors**

#### **Volunteer**

ABC BBQ March 2022

- Sold over \$600 in raffle tickets.
- Event photos.
- Helped with food judging.
- Set up/break down.

#### **Volunteer**

ABC Food Drive April 2022

- Run drive at work and collect from friends
- Donate food
- Break down boxes
- Fill and tape boxes
- Work at Coastal Bend Food Bank

#### **Volunteer**

ABC Fishing Tournament 2022

- Intake information
- Check in guests
- Assist with booth
- Weigh in for fish

### **Young Professionals of the Coastal Bend**

#### **Volunteer**

CCISD Book Drive March 2022

- Collected several boxes of books to help support CCISD.

#### **Volunteer**

CCISD Guest Speaker June 2022

- Spoke to students 13+ years old
- Discussed education opportunities and how to achieve them
- Discussed careers and how to get involved
- Discussed other material

#### **Volunteer**

Ronald McDonald House – Toy and Supplies Drive August 2022

- Collected money
- Collected clothing, toys, and hygiene necessities

#### **Volunteer**

Spawglass – Clay Shoot CC Gun Club March 2023

- Collected money
- Ran games
- Set up

- Break Down
- Raffle
- Sales

### **SELF-STARTED EVENTS**

#### **Food Drive**

For Izzy's Pantry at TAMUCC April 2023

- TBD

#### **Professional Attire Drive**

For Izzy's Closet at TAMUCC August 2022

- Collected clothing from the community
- Gathered suits, dress shoes, slacks, dresses, and blazers
- Over \$2000 in donations were made

#### **Southern Careers Institute – Presentation to Students**

Give presentation on interviews/resumes, other employment info

- PowerPoint
- Interact with students
- Give advice and gather resumes

### **MISCELLANEOUS ACTIVITIES**

#### **Volunteer**

ASPCA Dog Walker June 2009 – August 2009

- Leash and walk dogs.
- Clean kennels and refresh water bowls.
- Groom and wash dogs.

#### **Volunteer**

Beach Clean-up Crew Events 2009 – 2010 / 2012 – 2014

- Pick up trash and dispose into appropriate disposal areas.
- Move pallets and glass.

#### **Volunteer**

Bake Sales and Prom fundraisers 2010 – 2012

- Make bake items and set up bake sale area.
- Handle cash and assist customers.
- Using tools to create prom sets and canvas local business for donations.
- Cleaning and breaking down sets and bake sale areas.

#### **Volunteer**

Neighborhood Clean-ups and Beautifications 2010 – 2012

- Pick up trash and dispose into appropriate disposal areas.
- Pull weeds, clean gutters, sweep street areas.
- Creating bus stop seating areas with shade and painting in local high school team colors.
- Creating cute painted mascot plaques to hang in public places.

- Decorating town for holidays and sports events.

### **Yearbook**

#### Photographer and Assistant 2011

- Photograph all activities and events, travel to away games to document events.
- Creating pages for yearbook to be proofed by editor.
- Canvas local businesses for ad space and donations to fund production.

### **Yearbook**

#### Editor in Chief 2012

- Arrange teams of student photographers to document all school events and activities.
- Determine which pictures are appropriate for yearbook.
- Arrange and proof all pages before publications.
- Canvas town and local businesses for ad space and donations to fund production.

### **Volunteer**

#### Texas Longboard Surf Club June 2019 – 2021 (Membership current)

- Arrange TGSA events – sign in participates and assign shirts.
- Meetings and networking to retain and maintain membership.
- Assist group leaders.

### **Autocross SCCA Waldron**

#### Autocross participant 2014 - 2017

- Divide into classes and heats based on vehicle.
- Drive course as well as possible to qualify your time for the day.
- Pick up and arrange cones for other heats and report cones down for total points to deduct.
- Pay monthly dues and pass security background check to drive on base.

## LETTERS OF RECOMMENDATION

September 1, 2022

*To Whom it may concern,*

It's my absolute pleasure to recommend Janie Gifford for your employment.

Janie and I were coworkers at Unique Employment for the 7 months that I was employed there. I have since moved on, but have kept in close contact with her.

I thoroughly enjoyed working with Janie and always admired her positive, upbeat spirit and willingness to learn. Her organization skills and commitment are top-notch and I believe she can do anything she puts her mind to because she fully engulfs herself in any task she is presented with.

Her goals and ambitions are an inspiration to others as she continues her journey through life. Her willingness to be part of a team, foster positive discussions, and her dedication were truly admirable. Couple that with her ever-growing intelligence, insights and ideas, and work/life experiences, I believe she would be an asset to any organization that chooses her to be part of their team.

Please feel free to contact me at (806)-893-4263 or [jaycezuniga16@gmail.com](mailto:jaycezuniga16@gmail.com) should you like to discuss Janie's qualifications and experience further. I'd be happy to expand on my recommendation.

Sincerely,

*Jayce Zuniga*

*Inventory Control & Purchasing Manager  
Billy Pugh Company*





COLLEGE OF LIBERAL ARTS  
DEPARTMENT OF SOCIAL SCIENCES

6300 OCEAN DRIVE, UNIT 5826  
CORPUS CHRISTI, TEXAS 78412-5826  
O 361.825.2696 F 361.825.3762

Wendi Pollock  
Texas A&M University – Corpus Christi  
Department of Social Sciences  
6300 Ocean Drive, Unit 5826  
Corpus Christi, TX 78412

December 7, 2021

To Whom This May Concern:

I am pleased to write this letter of recommendation for Janie Gifford, who is currently applying to your graduate program.

I have had the pleasure of knowing Janie for a little over a year. She was a student in my upper-level research methods course at Texas A&M University – Corpus Christi. As a student in the classroom, Janie was engaged and performed well overall. She picked up new tasks quickly and was able to present her results effectively both in written and oral form. She also worked well under the unusual circumstances created by the early stages of the COVID-19 pandemic and was able to continue her learning process, even in a format that may not have been her first choice.

In addition to her work in the classroom, Janie has worked in the field, often in positions that would give her more insight into the courtroom and surrounding processes. She has been a paralegal as well as a receptionist/court runner for several legal firms. As a result, Janie, more than many other undergraduate students that I have taught, may have a clearer sense of the role in the criminal justice system that she is wishing to undertake. As a result of Janie's knowledge of the system, her persistence when it comes to continued learning, her ability to successfully complete difficult new tasks under difficult conditions, and her abilities to communicate both orally and in writing, I highly recommend Janie for your program. If there is anything else I can do to further her application, please do not hesitate to contact me.

Sincerely,

*Wendi Pollock*

Wendi Pollock, Ph.D.  
[Wendi.Pollock@tamucc.edu](mailto:Wendi.Pollock@tamucc.edu)  
361-825-3061

Brittani Ortiz  
Bandas Law Firm  
802 N. Carancahua, Suite 1400  
Corpus Christi, TX 78401

November 17, 2021

To Whom It May Concern:

I am highly recommending Janie Gifford to you. I am a paralegal at Bandas Law Firm and I have worked with Janie in redeveloping our litigation filing system. I believe Janie would be a great asset to the position she applies for.

Janie has displayed a very positive and ambitious work ethic with all tasks I did present to her. On top of that, she had excellent organizational skills and was very prompt.

I believe that Janie will be a great fit for your business. She was amazing to work with and shows she is very knowledgeable while also has a interest to learn more.

Sincerely



Brittani Ortiz  
Paralegal



To Whom It May Concern:

It is my great pleasure to write this recommendation letter to Janie Gifford for her application to law school. Janie Gifford is one of my students at Texas A&M University of Corpus Christi. She took communication theory course with me. I was impressed by her diligence, critical thinking, and exceptional communication skills.

I am an assistant professor of Department of Communication and Media at Texas A&M University-Corpus Christi. I have taught communication related courses since 2015. Janie Gifford is one of the most talented students I have worked with.

In Communication Theory class, Janie is one of the students who progressed tremendously at the end of the class. At the beginning, Janie was a little bit struggled with her case study idea. With tons of hard work and deep research, at the end of the semester, Janie developed a great piece of final work. I am surprised by her perseverance and determination. Her immense improvement resulted from her hard work and unstoppable spirit.

In addition to schoolwork, Janie also has various professional experience. She has been a hiring recruiter for unique employment agency. In addition to that, she also worked as a paralegal for years. Janie is enthusiastic about her work and developing numerous important skills and abilities for her future career. With years of working experience, Janie is excellent at multitasking, planning and communication. To be a good paralegal, she needs to greet clients, take calls, manage social networking, interact with courthouse, jails, and police officers. Her extraordinary multitasking and planning skills made her survive and thrive in her job. Meanwhile, communication is another integral part in her work, an exceptional communication skill made Janie work with various people smoothly and productively.

To sum up, Janie is a self-motivated person with great passion on her study and job. With all the above-mentioned remarkable qualities, I believe that Janie Gifford will continue to be great in her future. I highly recommend her for admission to your program. She is talented, dedicated, hardworking and never stops chasing her dream. Janie's outstanding multitasking abilities, planning and communication skills will also make her a brilliant student in law school. Please feel free to contact me if you have any questions at [sining.kong@tamucc.edu](mailto:sining.kong@tamucc.edu).

Sincerely,  
*Sining Kong*  
Assistant Profess of Communication  
Department of Communication & Media  
Texas A&M University-Corpus Christi

October 13, 2021

Attn: Law School Admissions Committee

Re: Recommendation for Admission to Law School  
Janie Gifford

Dear Law School Admissions Committee,

It is with great pleasure that I recommend Ms. Janie Gifford for admission to your law school. Throughout her employment with my prior law firm, Ms. Gifford has proven to very observant, a quick learner and exhibited professionalism and commitment to her work.

Ms. Gifford was initially brought into my office as additional office support with the understanding her responsibilities would be increased after her abilities were demonstrated. Ms. Gifford quickly shined and excelled.

Ms. Gifford was entrusted with maintaining client communications, handing sensitive documents and financial information, and keeping the office a welcoming and professional environment for my clients and colleagues. I was most impressed with her inquisitive nature. I took that to be demonstrative of both her attention to detail but also sincere desire to learn. Unfortunately, my prior partner began transitioning to retirement in August of 2018, and I was unable to continue to employ her as our office staff was downsized.

I believe Ms. Gifford has the character, work ethic and natural abilities necessary to excel in law school as well as practice. Having Ms. Gifford as a student at your law school will be a credit to your institution.

Sincerely,

  
STEVE LOPEZ

# Application for a City Board, Commission, Committee or Corporation

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## Profile

Michael J Starek  
First Name Middle Initial Last Name

[Redacted]  
Email Address

[Redacted]  
Street Address

Corpus Christi TX 78418  
City State Postal Code

[Redacted] [Redacted]  
Primary Phone Alternate Phone

### What district do you live in? \*

District 4

### Current resident of the City of Corpus Christi?

Yes  No

### If yes, how many years?

11 years

Texas A&M University-Corpus Christi Professor of Geospatial Engineering Professor  
Employer Job Title Occupation

### Work Address - Street Address and Suite Number

6300 Ocean Drive, Unit 5799

### Work Address - City

Corpus Christi

### Work Address - State

Texas

### Work Address - Zip Code

78412

**Work Phone**

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3618253978

**Work E-mail address**

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michael.starek@tamucc.edu

**Preferred Mailing Address**

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Home/Primary Address

**Which Boards would you like to apply for?**

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WATERSHORE AND BEACH ADVISORY COMMITTEE: Submitted

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**Interests & Experiences****Are you a Nueces County registered voter?**

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Yes  No

**Do you currently serve on any other City board, commission or committee at this time? If so, please list:**

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No city boards. I have served/serve on several national and international scientific and professional society committees involved with engineering, geospatial & mapping technology, and coastal problems and research.

**Education, Professional and/or Community Activity (Present)**

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I received my PhD in Civil Engineering with a minor emphasis in coastal engineering from the University of Florida. As a professor of geospatial systems engineering at TAMUCC, I also serve as Chair for Geomatics and Director of the Measurement Analytics Lab (MANTIS) at the Conrad Blucher Institute for Surveying & Science (CBI), which is an institute focused on coastal-environmental observation, modeling, and geospatial analysis and education. CBI has a long standing history of conducting coastal research for the community of Corpus Christi and surrounding regions that encompass the Coastal Bend. As Director of the MANTIS lab at CBI ([www.mantisresearch.org](http://www.mantisresearch.org)), I guide students and staff on conducting applied research that explores the merging of geomatics (i.e., surveying technology), remote sensing, and geospatial computing, including artificial intelligence (AI), to aid scientific and engineering decision-making through improved measurement and analytics of natural and built systems. One of our primary focus areas is on coastal problem domains including coastal resiliency issues facing the Coastal Bend and Gulf of Mexico at large. Additionally, we specialize in the application of emerging 3D mapping and surveying technology, such as drones and LiDAR scanning, for coastal zone monitoring and other applications.

**Why are you interested in serving on a City board, commission or committee?**

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To explain my reasons for wanting to serve on this committee, I need to give a brief review of my background. Being a native Texan, I was raised in the DFW area land locked, but as a child, I was fortunate enough to have parents that would take us to the coast often. It was at that time that I developed an intense appreciation for the coast and beach. As a freshman in college, I started in the coastal engineering program at Texas A&M University, but my desire to live and reside near the coast led me to transfer to Texas A&M-Corpus Christi (TAMUCC) where I completed my BS and MS degrees. During that period, I lived part of my time on North Padre Island and became immersed in the nature, beaches, and waterways of Corpus Christi as well as interested in the coastal pressures our beaches and shorelines face, both from anthropogenic and natural activities. I then moved away from Corpus Christi to Gainesville, FL, to pursue my doctorate degree and that eventually led me to Raleigh, NC, where I worked at NC State University and the Army Research Office for three years. Those experiences, including the research and projects I worked on, exposed me to coastal issues facing the beaches and communities of Florida and North Carolina, and the various management practices those states and regions apply. After being gone for nearly a decade, I returned to Corpus Christi in late 2012 for what is now my current position at TAMUCC. I felt extremely fortunate to be able to obtain a position back at the same university I came from and within the community that I truly loved, Corpus Christi. Now, having been back here for over a decade living on North Padre Island, I have seen first-hand the unprecedented acceleration in public interest and development that our beaches and shorelines are experiencing. Additionally, I am aware of the vulnerability of our beaches and shores to continual threats from coastal erosion, inundation, and storm impacts. Long story short, I am an avid waterman and surfer, fisherman and kayaker, and vested community member and engaged user of our local beaches and waterways, My desire to serve on this committee is to provide my insights and expertise with the aim to help our City to effectively manage, monitor, and preserve our beautiful beaches and natural coastal resources for future generations to come.

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Upload a Resume

**Are you an ex-Officio member of a City Board, commission or committee?**

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Yes  No

**No person shall be appointed by the Mayor or Council Members to serve on more than one board, commission, committee or corporation at the same time. If you currently serve as a voting member for a board, commission, committee or corporation are you willing to resign your current seat to serve on another board, commission, committee or corporation?**

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Yes  No

**Are you a current candidate in an election for a non-city public office?**

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Yes  No

**Do you currently serve as an elected official for a non-city public office?**

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Yes  No

**Will you seek re-election to the non-city public office? If not in a non-city public office, please enter N/A**

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N/A



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**Demographics**

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**Code of Ethics - Rules of Conduct/Conflicts of Interest**

**Do you represent any person or organization in any claim or lawsuit or proceeding involving the City?**

Yes  No

**Do you, your spouse, your business or your spouse's business have a City contract?**

Yes  No

**Does your employer or your spouse's employer have a City contract?**

Yes  No

**Are you involved with any activities or employment that would conflict with the official duties on the City boards for which you are applying?**

Yes  No

**Are you, your spouse, your business or your spouse's business involved in any pending bid, proposal or negotiation in connection with a contract with the City?**

Yes  No

**Do you or your spouse have a pending claim, lawsuit or proceeding against the City?**

Yes  No

**If you answer "Yes" to any of the questions above, please explain or ask to speak with the City's Legal Department. If you answer "NO" to all questions above, please enter N/A.**

N/A

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**Board-specific questions (if applicable)**



Question applies to WATERSHORE AND BEACH ADVISORY COMMITTEE

**The Watershore & Beach Advisory Committee must include members representing certain categories. Do you qualify for any of the following categories? \***

- Scientist i.e., Marine Biologist)
- Engineer

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## Verification

### City Code Requirement - Residency

As a board, commission, or committee member, you will be asked to adhere to City Code of Ordinances, Section 2-65, which states that all members of City boards and commissions, including ad hoc committees, appointed by the City, must be residents of the city. A move outside the city limits of the city by any member shall constitute automatic resignation from the particular board or commission on which such member served.

I Agree

### City Code Requirement - Attendance

As a board, commission, or committee member, you will be asked to adhere to City Code of Ordinances, Section 2-61, which provides that absences from more than 25% of regularly scheduled meetings during a term year on the part of any board, commission, or committee member shall result in an automatic termination. An absence shall be deemed unexcused unless excused by the board, commission or committee for good cause no later than its next meeting after the absence.

I Agree

## Consent for Release of Information

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I understand that if any member of the public makes a request for information included in this application or in any attachment (e.g. resume or supporting documentation) for appointment it is subject to and must be disclosed under the Texas Public Information Act. I understand that under the Texas Public Information Act, my home address and home telephone number is subject to public disclosure unless I am elected or appointed to the position which I seek. I hereby consent to the release of my home address and home telephone number should it be requested under the Texas Public Information Act prior to my possible appointment or election. I hereby release the City of Corpus Christi, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Texas Public Information Act.

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I Agree

## Oath

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I swear that all of the statements included in my application and attached documents, if any, are true and correct.

---

I Agree

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# MICHAEL J. STAREK

## Curriculum Vitae

Contact: 6300 Ocean Drive, Unit 5799, Corpus Christi, TX 78412-5868 • [REDACTED] • Wk: 361.825.3978

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### EDUCATION

#### University of Florida

Ph.D. Civil Engineering

*Emphasis: Geosensing Systems Engineering, Minor Emphasis: Coastal Engineering*

#### Texas A&M University - Corpus Christi

M.S. Computer Science

B.S. Environmental Science, Math minor, *summa cum laude*

### RESEARCH INTERESTS

- Remote and autonomous sensing
  - Geodetic imaging techniques: lidar, photogrammetry
  - Uncrewed aircraft systems (UAS)
  - Multi-sensor data fusion
- Geospatial modeling and digital twins
- AI for geospatial data exploitation
- Geomatics solutions for natural and built environment monitoring

### ACADEMIC APPOINTMENTS

- **Professor of Geospatial Systems Engineering** 2023 – Present  
Texas A&M University-Corpus Christi (TAMUCC)  
Program Coordinator for Geospatial Computer Science PhD Program  
Core Programs: GISC (BS, ABET accredited), Geospatial Systems Engineering (MS), Geospatial Computer Science (PhD), Supporting Program: Coastal and Marine System Science (PhD)
- **Associate Professor of Geospatial Systems Engineering** 2018 – 2022  
TAMUCC
- **Assistant Professor** 2014 – 2018  
TAMUCC
- **Associate Research Scientist** 2012 – 2013  
Harte Research Institute for Gulf of Mexico Studies at TAMUCC  
Coastal & Marine Geospatial Lab (CMGL)
- **Research Associate/Research Assistant Professor** 2011 – 2012  
North Carolina State University (NCSU), MEAS Department
- **National Research Council (NRC) Postdoctoral Fellow** 2009 – 2011  
US Army Research Office (ARO), Host: North Carolina State University  
Advisors: Dr. Russell Harmon, former Director of U.S. Army ERDC International Research Office, and Dr. Helena Mitasova of NCSU

- **Graduate Research Assistant**

May 2004 – May 2009

University of Florida, Gainesville FL

Joint member of Adaptive Signal Processing Laboratory and the Geosensing Engineering and Mapping Center with the National Center for Airborne Laser Mapping (NCALM)

Advisor: Dr. K Clint Slatton, ECE and CCE Departments, PECASE award winner

## RESEARCH AFFILIATIONS AND INSTITUTE APPOINTMENTS

### Conrad Blucher Institute for Surveying and Science (CBI) at TAMU-CC

- *CBI Chair of Remote Sensing and Autonomous Systems* (Appointed July 2022)
- *Director, Measurement Analytics Lab (MANTIS)*
  - <http://mantisresearch.org/> [[link](#)]
  - MANTIS YouTube channel [[link](#)]
  - Founded in 2014
- Chief Research Scientist (February 2019-June 2022)
- Associate Director of Geospatial Computing Lab (2014-2016)

### Lone Star UAS Center of Excellence & Innovation (LSUASC), FAA UAS test site

- Affiliate Research Faculty: 2014-2018
  - <http://lsuasc.tamucc.edu/> [[link](#)]

### Texas A&M University (TAMU) System

- Graduate Faculty Status Appointment (2020-Present)

## RESEARCH ACTIVITIES

### Funded Projects

[Summary: ~\$20,000,000 total, ~\$1.8M as PI, ~\$18.1M as Co-PI/other]

#### Sponsored Projects

- (PI) Texas A&M Transportation Institute (Co-PI/collaborator), *Develop Guidelines for Integration of UAS LiDAR and Photogrammetry to Enhance Land Surveying Capabilities*, TxDOT, 2022-2024, \$499,992.00 (total), \$320,776.50 (TAMUCC).
- (PI) at TAMUCC, Texas A&M Transportation Institute (Lead PI), *Develop Guidelines for the Use of Unmanned Aerial Systems (UASs) and Smartphones for Construction and Utility Inspections*, TxDOT, 2022-2024, \$100,462.00 (TAMUCC).
- (PI) *UAS Monitoring and Assessment of Nueces Delta Shoreline Protection*, Coastal Bend Bays & Estuary Program (approved), June 2023-Dec. 2025, \$40,564
- (PI) Investigating Impacts of Sea Level Rise on Sea Turtle Nest Management at PAIS, 2024-2026 (approved by sponsor notification with tentative contract start in FY 2023-24), \$92,439.
- (Co-I) *REU Site: Applied Computing Research in Unmanned Aerial Systems*, NSF, Federal, 2022-2025, \$406,356.00.
- (Snr. Personnel overall, Co-PI at TAMUCC), U. Oklahoma (lead), *NSF AI Institute for Research on Trustworthy AI in Weather, Climate, and Coastal Oceanography*, 2020-2025, \$2,579,356 (TAMUCC).
- (Co-PI) NSF CREST - Center for Geospatial and Environmental Informatics, Modeling and Simulation, 2022-2026, \$708,126 (FY 2022), \$4,287,228 (total).

- (Senior Personnel) NRT-HDR: Stakeholder-Guided Environmental Science (STAGES), NSF, 2022-2026, \$2,000,000 (total)
- (PI) at TAMUCC, Texas A&M Transportation Institute (Lead PI) *Examine Reconnaissance Scanning of Underground Utilities in the ROW*, TxDOT, 2021-2023, \$82,405.00 (TAMUCC funds).
- (Co-PI) *Regional Geospatial Modeling for Gulf of Mexico: Phase 2*, NOAA NGS through USM, multi-university consortium, 10/1/2018-9/30/2022, TAMUCC total of \$4,329,274.
- (PI) *Developing Survey-Grade Vertical Accuracy UAS Data for Shoreline Projects Using Real Time and Post-Processed Kinematic Solutions*, NOAA, 2020-2021, \$65,000.
- (PI) at TAMUCC, TAMU Texas Transportation Institute (lead), *Guidance for the Use of UAS During Suboptimal Environmental Conditions*, TxDOT, 2019-2021, \$218,887.00 (TAMUCC funds).
- (PI) *Re-establishment of a Monitoring Benchmark to Study Marsh Resilience in the Mission-Aransas Natural Estuarine Research Reserve (NERR)*, National Academies of Science, 2018-2019, \$41,084.
- (Senior Personnel) *REU Site: Applied Computing Research in Unmanned Aerial Systems*, NSF, Federal, June 2018 - August 2021, \$369,810.00.
- (Co-PI) *MRI: Acquisition of Cloud Computing Infrastructure for Science and Engineering Research Innovations*, NSF, 2018-2020, \$517,657.
- (Co-PI) *Improving Oil Spill Response through Integrated Geospatial Reporting Tools and UAS Protocols*, Texas General Land Office (TGLO), Oil Spill Research and Development, 2017-2019, \$339,074.
- (PI) *Improving Oil Spill Response through Integrated Geospatial Reporting Tools and UAS Protocols – Addendum Task on UAS Training*, TGLO, 2019, \$12,756.
- (PI) UAS Data Analysis of Nueces County Owned Property, Nueces County, 2017-18, \$16,959.
- (PI) at TAMUCC, *Unmanned Aircraft System Technology Education Consortium*, NSF ATE, collaboration with Del Mar College (lead), 2016-2019, \$758,000 total, \$146,661 (TAMUCC).
- (Co-PI) *Experiential Training in Use of Unmanned Aerial Systems (UAS) Technology for Agriculture Applications*, USDA, 2016-21, multiple universities, \$1,000,000 (TAMUCC, from Maestro).
- (Co-PI) *MRI: Development of an Integrated Gas Monitoring and Source Identification Unmanned Aircraft System for Exploration, Compliance and Assessment*, NSF, 2016-18, \$539,998.
- (Co-PI) *Regional Geospatial Modeling for Gulf of Mexico: Phase 1*, NOAA NGS through USM, multi-university consortium, 10/1/2014-9/30/2018, TAMUCC total of \$3,308,859.
- (PI) *Remote Sensing by UAV to Detect Sugarcane Aphid in Sorghum*, USDA ARS Cooperative Agreement, 2016-2017, \$15K.
- (PI) *UAS Data Acquisition for Corn Monitoring*, Texas A&M University, 2017, \$9000.
- (PI) *Funding to support UAS Ag. Research*, Texas A&M AgriLife Research, 2016-17, \$20,000 (AgriLife, supported students and equipment).
- (PI) *Development and Validation of UAS-based Sensing Platform for Monitoring the Growth and Health of Cotton*, Texas State Support Committee Cotton Inc, 2016-17, \$54,999.27.
- (Co-I/Collaborator) *Improving Sustainability of Livestock and Wildlife Management Using Remote Sensing Technology*, Texas A&M AgriLife Research Sustainable Solutions for Beef Production Systems (FY'16) Innovation Award, 2015-16, \$25,000 (AgriLife).
- (PI) *Develop and test BP and JAG Geomatics UAS workflow*, JAG Geomatics, 2015, \$7500.



- (PI) *UAV survey of sea grass for prop scar mapping*, Texas Parks and Wildlife Dept., 2015, \$4600.
- (PI) *Development of Probabilistic Clutter Maps within Complex Forested Terrain*, USACE ERDC, 2014-2016, \$109,000.
- (PI) *High-Resolution Lidar Observations of Rookery Islands to Define a Monitoring Benchmark*, Texas General Land Office NOAA CMP, 2014-2016, \$93,567.02 (with \$38,567.02 in cost sharing)
- (Co-PI) *Terrain Dynamics Analysis Using Space-Time Domain Hypersurfaces and Gradient Trajectories Derived from Time Series of 3D Point Clouds*, ERDC, 2011-2013, \$246,000
- (PI) *Maintenance Requirements and Accessory Equipment in Support of a HD Survey System*, Defense University Research Instrumentation Program, 2010-2011, \$15,000
- (PI) *Lidar Acquisition and Information Extraction Methods for Multi-scale Terrain Monitoring*, National Research Council (NRC) and US Army Research Office (ARO), 2010-2011, ~\$68,000
- (PI) *Feature Extraction and Stochastic Estimation of Coastal Terrain Evolution Using High Resolution Lidar Measurements*, NRC/ARO, 2009-2010, ~\$66,000.

#### Non-sponsored Projects [internal funding]

- (PI) *Campus Surveying Project*, 2014-2022, ~25k/yr, ~\$200,000 to date
- (Co-PI) *Escalating Mobile Lidar Capabilities for Geospatial Sensing Education and Research*, Texas Research Development Fund (TRDF), 2019-2020, \$5K.
- (Co-PI) *Mobile Geospatial Sensing for 3D Campus Survey and Indoor Localization*, TRDF, 2019-2020, \$10K.
- (Co-PI) *Aggie Swarmers*, Sponsored by TEES, \$2,500.00. (June 1, 2018 - August 31, 2019).
- (Co-I/collaborator) *Characterizing and quantifying plastic debris using unmanned aerial systems (UAS)*, TCRF, 2016-2017 (\$20k)
- (PI) *Development of Geospatial Techniques for a Marsh Observatory through the Integration of UAS and Field Measurements*, Texas Research Development Fund (competitive), 2014-15, \$20,000.

#### Memorandum of Understanding (MOU)

- Co-Investigator in development of an MOU between UASCE New Orleans District and Conrad Blucher Institute at TAMUCC, March 18, 2015. Focus is on UAS surveying technology.

#### AWARDS AND RECOGNITION

- 431 Exchange Scholarship, MS student Jose Congo (2021).  
<https://431exchange.org/stories/introducing-some-of-our-431-exchange-superheroes>
- American Society for Engineering Education Postdoctoral Fellowship (ASEE), supported by the U.S. Naval Research Lab, 2020-Present. Won by my former PhD student Ms. Chuyen Nguyen.
- Blue Marble Geographics Scholarship Award for 2020. Won by my student Kelsi Schwind for her work with airborne lidar to assess hurricane impacts.
- Paul R. Wolf Memorial Scholarship in Photogrammetry and Remote Sensing, American Society of Photogrammetry and Remote Sensing. (2019). Won by my student Isabel Garcia.
- 2nd Place for Best Poster Presentation, 2018 HENAAC Great Minds in STEM Conference, (2018).
- Best paper award sponsored by Monsanto at the International Society for Optics and Photonics (SPIE) Defense + Commercial Sensing Conference, Anaheim, CA. UAS imaging for automated crop

- lodging detection: a case study over an experimental corn field presented in the Autonomous Air & Ground Sensing Systems for Agricultural Optimization & Phenotyping II (2017)
- First Place Poster award to Laura Carbajal (MS Student) and M.J. Starek (mentor) at the USDA HSI Meeting, Albuquerque, New Mexico. Poster entitled Evaluation of UAS-Based Remote Sensing for Measuring Forage Properties at an Experimental Rangeland, Feb. 16-18 (2017)
  - Outstanding Reviewer for ASCE Journal of Surveying Engineering (2015)
  - Lights & Mirrors Award, USACE Airborne Coastal Mapping and Charting Workshop (2011)
  - Recipient of two National Research Council Postdoctoral Fellowship awards to carry out independent research supported by the US Army Research Office (ARO) and the Air Force Research Lab (AFRL); accepted ARO award (2009).
  - University of Florida Alumni Fellowship (2004-08)
  - Chi Epsilon Civil Engineering Honor Society (inducted in 2007)
  - Texas A&M University Dept. of Science & Technology Graduate Scholarship in Computer Science for Excellence in Academic Achievement and Research (2001-2002)

## TEACHING ACTIVITIES

### Courses Taught

- *GISC 4431: Remote Sensing (undergraduate)*
- *GSEN 6330/CMSS 6330: Spatial Systems Science (graduate),*
- *GSEN 6385: Photogrammetric Engineering and Lidar Scanning (graduate)*
- *GSEN 6370: UAS for Surveying and Mapping (graduate)*
- *GSCS 6102: Graduate Seminar*

### Certification and Training

- *Certificate of Course Design and Development in Online Instruction* by the Office of Distance Education and Learning Technologies, TAMUCC, completed on May 26, 2017.
- *Certificate of Course Delivery and Peer Review in Online Instruction* by the Office of Distance Education and Learning Technologies, TAMUCC, completed on May 26, 2017.
- Completed 3-day *Challenge Based Instruction Faculty Development Workshop*, TAMUCC, 2015.
- Completed TAMUCC Faculty Research Development Program, selected by the Dean, 2015
- Completed *Blackboard Course Development* training, TAMUCC, 2014.
- Completed a six-course workshop entitled *Certification in Teaching Techniques* through the NC State University Office of Postdoctoral Affairs, 2010.

### Student Mentoring

Serve as advisor for students in Geographic Information Science (GISC) BS program, Geospatial Systems Engineering (GSEN) MS program, Geospatial Computer Science (GSCS) and Coastal Marine System Science (CMSS) PhD programs. Serve on committees for MS students in Environmental Science (ESCI) and CMSS, as well as externally at on PhD committees at other universities.

*Completed PhD Students as Chair [since 2014: 2 total]*

- Mr. Mohammad Pashaei, GSCS, December 2021  
Dissertation: "Applications of Deep Learning and Multi-Perspective 2D/3D Imaging Streams for Remote Terrain Characterization of Coastal Environments"
- MS. Chuyen Nguyen, CMSS, May 2019 (now at NRL)

Dissertation: "Development of Geodetic Imaging Techniques and Machine Learning for Marsh Observation"

*Current PhD Students ABD [1 total]*

- Bradley Koskowich, GSCS, defense scheduled for Fall 2022  
Dissertation: "Efficiently Localizing Monocular Images Using Image Synthesis, Point Cloud Products & Keypoint Densification"

*Completed PhD Students as Committee Member [since 2014: 8 total]*

- 4 at TAMUCC, 3 at University of Houston, 1 at TAMU

*Completed MS Students as Chair [since 2014: 20 total, 11 projects, 9 theses (listed below)]*

- Jose Congo, GSEN, 2022  
Thesis: "Evaluation of Different GNSS Solutions and SfM Software Workflows for UAS Surveying of Remote Areas"
- Jacob Berryhill, GSEN, 2021  
Thesis: "UAS for Monitoring and Assessment of Sandy Beach Oiling Events"
- Edison Veloz, GSEN, 2020  
Thesis: "Evaluation of Environmental Impacts Produced by Gold Mining to the Surrounding Forest in Ecuador Using Satellite Imagery and UAS"
- Casey Cockrell, GSEN, 2018  
Thesis: "Ground survey sampling practices to construct a constrained Delaunay triangulated irregular network digital terrain model for the purpose of large scale map applications"
- Isabel Garcia, GSEN, 2018  
Thesis: "UAS-Based Detection and Management of Aphid Infestation on Sorghum Crops"
- Laura Carbajal, GSEN, 2018  
Thesis: "UAS Applications for Rangeland Management"
- Michael Schwind, GSEN, 2016  
Thesis: "Comparing and Characterizing Three-Dimensional Point Clouds Derived by Structure from Motion Photogrammetry"
- Behrokh Nazeri, GSEN, 2016  
Thesis: "Comparison of Airborne Surveying Techniques for Mapping Submerged Objects in Shallow Water"
- Justin Giessel, GSEN, 2015  
Thesis: "2D and 3D Mapping of a Littoral Zone with UAS and Structure from Motion Photogrammetry"

*Completed MS Students as Committee Member [since 2014: 16 total, 11 thesis]*

*Current Graduate Students as Chair [11 total]*

- PhD students: 4, MS students: 7

*Undergraduate Student Researchers and Internships [since 2014: 17 total, 8 NSF REU students]*

**Postdoctoral Mentoring at Conrad Blucher Institute for Surveying & Science, TAMUCC**

- Dr. Mohammad Pashaei, Ph.D. in Geospatial Computer Science, TAMUCC, 2021-Present
- Dr. Chuyen Nguyen, Ph.D. in Coastal & Marine Systems Science, TAMUCC, 2019



- Dr. Tianxing Chu, Ph.D. in Photogrammetry & Remote Sensing from Peking Univ., 2016-2018

## PROFESSIONAL SERVICE ACTIVITIES

### Society Membership and Committee Service

- United Nations GGIM Academic Network Advisory Board Member, 2020-Present
- UNOLS Scientific Committee on Oceanographic Airborne Research (SCOAR), 2017-Present
- UNAVCO University Representative, 2015-Present
- American Society of Civil Engineers (ASCE), 2014-Present
  - Utility Engineering and Surveying Institute / Geomatics Committee, 2015-Present
- American Society for Photogrammetry & Remote Sensing (ASPRS), 2005-Present
  - Remote Sensing Applications Division (RSAD) Committee (since 2016)
  - Chair of RSAD Coastal & Marine Working Group (2016-2019, 2021-Present)
- American Shore and Beach Preservation Association (ASBPA), 2012-Present
  - ASBPA Students and New Professionals Committee, 2013-2016
- American Geophysical Union (AGU), 2005-Present
- Association for Unmanned Vehicle Systems (AUVSI), October 2016-2021
- Institute of Electrical and Electronics Engineers (IEEE), 2007-Present
  - Geoscience and Remote Sensing Society
  - IEEE Corpus Christi Treasurer, 2015-2017, IEEE Corpus Christi Secretary, 2018

### Reviewer Service

#### *Journals* (list not exhaustive)

- ASCE Journal of Surveying Engineering
  - Associate Editor (June 2022-Present), Editorial board (2016-May 2022)
- Remote Sensing (open-access)
  - Editorial board (2020-present)
- ISPRS Journal of Geo-Information
  - Special Issue: *Geospatial monitoring with hyperspatial point clouds* (Guest Editor)
- IEEE Transactions in Geoscience and Remote Sensing (TGRL)
- IEEE Geoscience and Remote Sensing Letters (GRSL)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS)
  - Special Issue: *Enabling Earth observation systems for natural hazards and disasters: accelerating SDGs 2030 implementation* (Guest Editor)
- SPIE Journal of Applied Remote Sensing
- Drones
- Photogrammetric Engineering and Remote Sensing (PE&RS)
- Applied Geomatics
- Journal of Coastal Research (JCR)
- ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering
- Shore & Beach
- International Journal of Remote Sensing
- Textbook, Blue Book II - Airborne Hydrographic Laser Scanning (2015)

#### *Federal and State Agencies*

- National Oceanic and Atmospheric Administration (NOAA)

- National Geodetic Survey (NGS)
- Sea Grant
- Office of Oceanic and Atmospheric Research
- U.S. Army Research Office (ARO)
- U.S. Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC)
- United States Geological Survey (USGS)
- U.S. Fish and Wildlife Service (USFWS)
- U.S. Department of Agriculture
- Netherlands Space Office (NSO)
- University of Maryland
- California State University System

#### **Scientific Conference Committees and Sessions (list not exhaustive)**

- Session Attendee: United Nations 12th Session of the Committee of Experts on Global Geospatial Information Management, Academic Network Representative, August 2022
- Session Co-Organizer, Emerging Technologies and Applications in Remote Sensing, ASPRS 2022
- Session Attendee (virtual): United Nations 10<sup>th</sup> Session of the Committee of Experts on Global Geospatial Information Management, Academic Network Representative, August 2020.
- Session Chair: ASPRS Annual Conference 2020 - UAS Data Processing.
- Session Chair: ASPRS Annual Conference 2019 - UAS Calibration and Accuracy Assessment II
- Session Attendee: United Nations 9<sup>th</sup> Session of the Committee of Experts on Global Geospatial Information Management, Academic Network Representative, August 2019.
- Track Organizer, 17th Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, AMS Annual Conference 2019. January 2019.
- Session Attendee: United Nations 8<sup>th</sup> Session of the Committee of Experts on Global Geospatial Information Management, Academic Network Representative, August 2018.
- Track Organizer, 17th Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, AMS Annual Conference 2018. January 2018.
- Session Co-Organizer and Chair: The Future Is Here and Changing Our Way of Life: Development and Applications of Unmanned Aircraft System (UAS) Technology, session accepted for SACNAS National Conference, Salt Lake City, Utah, October 2017.
- Session Organizer and Chair (upcoming): Unmanned Aircraft Systems for Observing and Analyzing Coastal Systems, session accepted for AGU Fall Meeting, New Orleans, LA, Dec., 2017.
- Session Co-Chair (upcoming): 17th Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, AMS Annual Conference, Austin, TX, January, 2018.
- Session Chair: Agriculture Applications III, Oral, IEEE IGARSS 2017, upcoming, July 27, 2017.
- Session Organizer and Chair: Autonomous Systems for Coastal & Estuarine Processes, AGU Ocean Sciences, New Orleans, LA, Feb. 23, 2016.
- Session Chair: Photogrammetry and Point Clouds, ASPRS IGTF, Fort Worth, TX, April 11-15, 2016.
- Session Chair: Considerations for LiDAR Use in Sea Level Rise, ASPRS IGTF, Fort Worth, TX, April 11-15, 2016.
- Session Chair: Conversations with Engineers, Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Anaheim, CA, 2016.
- Session Chair: Conversations with Engineers, Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Washington DC, 2015.

- Session Chair: Dynamics of Coastal Processes, ASPRS IGTF, 2014.
- Technical Program and Organizing Committees: IEEE GreenTech, Corpus Christi, TX, 2014.
- Technical Program and Organizing Committees: IEEE Ubiquitous Positioning Indoor Navigation and Location, Corpus Christi, TX, 2014.
- Technical Program Committee (reviewer): Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, 2013, 2014, 2015.
- Technical Program Committee (reviewer): IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2009-2021.

### **Selected Workshop Development**

- Instructor/Co-Organizer: Best Practices for Surveying Waterbirds w/ Drones (Aug. 27, 2022).
- Co-organizer and faculty mentor: UN Mappers Mapathon (March 30, 2022).
- Instructor/Co-Organizer: UAS for SCAT, Texas General Land Office (Summer 2019).
- Workshop Organizer: Del Mar and TAMUCC UASTECC Stem night. (October 2018).
- Contributor: USDA NIFA Data Driven Ag Workshop, Arlington, VA, Feb. 26-27, 2018.
- Instructor/Co-Organizer: 1<sup>st</sup> Annual USDA UAS in Agriculture Field Day, TAMU AgriLife Research Center, Robstown, TX, June 13, 2017.
- Instructor/Co-Organizer: Fundamentals of SIT Exam, Corpus Christi, TX, one-day course, 2015.
- Instructor/Co-Organizer: Fundamentals of SIT Exam, Corpus Christi, TX, one-day course 2014.
- Instructor/Co-Organizer: Student Career Development Workshop at ASBPA National Conference, Virginia Beach VA, October 14, 2014.
- Instructor/Co-Organizer: Student Career Development Workshop at ASBPA National Conference, South Padre Island TX, October 22, 2013.
- Instructor/Co-Organizer: Lidar Workshop for US Army GEOINTEL, Fort Bragg, NC, March 22, 2012.

### **Selected Seminars and Panels**

- Seminar: Auburn University, Geoscience Colloquium Seminar series, November 17, 2022.
- Seminar: Florida Atlantic University, Department of Geosciences Colloquium, April 1, 2022.
- Seminar: University of Florida Geomatics Program. November 2021.
- Seminar: ASPRS Pacific Southwest Chapter Meeting. Cal Poly-Pomona, 2021.
- Seminar: California Department of Transportation, 2021.
- Keynote Speaker: TAMUCC President's Council, UAS Research Activities, March 2021.
- Seminar: Coastal Zone Monitoring with Lasers, Drones, & AI. University of North Florida Civil Engineering Program (seminar). March, 2021.
- Panelist: Deep Learning Applications for 2D and 3D Hyperspatial Resolution Coastal Land Cover Mapping, ASPRS Virtual Conference, 2021.
- Seminar: California Department of Transportation, 2021.
- Panelist: NOAA Hydrographic Services Review Panel, New Orleans, LA, August 2020.
- Seminar: UAS for Coastal and Marine Applications, University of Florida Geomatics Program, November, 2020.
- Seminar: UAS for Coastal and Marine Applications, University of Florida Geomatics Program. November, 2019.
- Seminar: TxDOT Surveyor's Conference, 2019.

- Presenter and Panelist: 3D Geospatial Information for Sustainable Coasts: Emerging Solutions and Applications, United Nations World Geospatial Information Congress, United Nations, Dequing, China. November 21, 2018.
- Panelist, 19th Annual USACE JALBTCX Airborne Coastal Mapping and Charting Workshop. June 2018.
- Seminar: UAS for Coastal and Marine Applications, University of Florida Geomatics Program. November 16, 2018.
- Seminar: Hyperspatial 3D Point Clouds from Lidar and Drones: Applications to Wetland Segmentation and Crop Development, University of Houston and National Center for Airborne Laser Mapping, Houston, TX. November 7, 2018.
- Seminar: Eyes in the Sky UAS over South Texas, North Carolina State University Center for Geospatial Analytics, Raleigh, NC. November 1, 2018.
- Seminar: UAS Over the Skies of South Texas, State Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, Wuhan China, Sep. 23, 2017.
- Seminar: UAS Platforms, Software, and Sensors, Corpus Christi UAS Luncheon, Del Mar College Business Incubation, August 17, 2016.
- Panelist: Unmanned Aircraft Systems (UAS) for Coastal Observation, Global Marine Sustainability Workshop, The Scottish Assoc. for Marine Science, Oben, Scotland, Sep. 21, 2016.
- Seminar: Managing Natural Resources with UAVs Symposium, Texas A&M University-Kingsville, Sep. 16, 2016.
- Panelist: Drones: What to Know Before You Fly Lunch and Learn Workshop, Del Mar College Center for Economic Development, Corpus Christi TX, August 17, 2016.
- Seminar: University of Florida, School of Forest Resources and Conservation, May 25, 2016.
- Seminar: Natural Resource Management with Remote Sensing Symposium, Texas A&M AgriLife Research and Extension Center, Robstown TX, Feb. 4, 2016.
- Panelist: Undergraduate Research Day at the Capitol, Austin, TX, March 28, 2015.
- Seminar: Oregon State University, School of Civil and Construction Engineering, March 11, 2015.
- Seminar: North Carolina Society of Surveyors, October 9, 2014.
- Seminar: University of New Hampshire Center for Coastal & Ocean Mapping, November 1, 2013.
- Seminar: University of Florida, Geomatics program, May 20, 2013.
- Seminar: Harte Research Institute for Gulf of Mexico Studies Seminar Series, March 10, 2013.
- Seminar: USGS/USF Marine Science Institute Seminar, March 2012.
- Seminar: Harte Research Institute for Gulf of Mexico Studies Seminar Series, October 2011.
- Seminar: Univ. of Houston Dept. of Civil Engineering Seminar Series, Sep. 2011.
- Seminar: ASPRS GeoBytes Online Seminar Series, June 30, 2017.
- Seminar: Urban and Regional Information Systems Association (URISA) of Texas Online Seminar Series, September 27, 2016.

#### **Selected Media**

- May 5, 2022 – \$5M NSF Grant Funds New TAMU-CC Research Center that Focuses on Coastal Research, Resilience, and Innovation, [link to article](#)
- Oct. 10, 2021 – Feature on MANTIS graduate student by local TV, [link to article](#)
- July 30, 2021 - TAMU-CC Researchers Co-Host Artificial Intelligence Retreat, Promote Launch of Pilot AI Educational Program, [link to article](#)



- June 15, 2020 – LidarNews features my research, [link to article](#)
- April 10, 2018 – TAMUCC.edu, A&M-Corpus Christi Researchers Take Part in Bahamas Ocean Wave Study, [link to article](#)
- August 2017 - TAMUCC.edu, Island Univ. Aids Sea Level Rise Management, Uses AI, [link to article](#)
- April 13, 2017 – TAMUCC.edu feature article, Starek named to nationally-renowned committee, [link to article](#) (link is now broken)
- September 26, 2016 – NSF UASTEC Grant Award Announcement, covered by local TV affiliates
- October 5, 2016 – TAMUCC.edu feature article, Professor Uses Laser Scanning to Monitor Impact of Sea Level Rise to Marshes, [link to article](#)
- April 25, 2016 –Geospatial Solutions Magazine article, Drone survey of seagrasses tested for Texas Parks & Wildlife, [link to article](#)
- Feb. 24, 2016 -Texas Farm Bureau, video feature on UAVs for Agriculture, aired across state and several stations in Georgia including WTOG-SAV(CBS), WMAZ(CBS) , WAGA-ATL (FOX)
- May 2, 2016 – campus TV interview on use of drones to map seagrass, local NBS affiliate KRIS
- March 18, 2015 – MOU signing between Conrad Blucher and USACE, local NBS affiliate KRIS
- March 2, 2015 –Inside Unmanned Systems article, Texas A&M-Corpus Christi, AgriLife Research Approved for Drone-Based Plant Health Study, [link to article](#)
- February 16, 2015 – Radio interview on KEDT PBS related to drone regulations
- January 30, 2015 – KORO TV local Spanish language station campus interview on drones
- April 28, 2014 - Satellite Media Tour on UAVs, Fox, TWC, NBC (18 state and national affiliates)
- Sep. 21, 2014 - Drone research featured on local TV news outlets KRIS
- Sep. 10, 2014 - TAMUCC State of the University Address video feature on Starek’s UAS research
- June 7, 2014 - Corpus Christi Caller Times front page feature article on UAVs

## UNIVERSITY SERVICE ACTIVITIES

**TAMUCC Committee Service** (since 2014, below shows highlights)

- Chair of Council of Principal Investigators (CPIRA), 2021-2022
  - CPIRA consists of PIs and research administrators from across all colleges and units on campus. It is equivalent to Faculty Senate, but for research and a major service load.
- Vice Chair of Council of Principal Investigators (CPIRA), 2020-2021
- Geospatial Computer Science PhD Program Coordinator, 2019-Present
- Associate Vice President for Research Search Committee (2021-2022)
- New Dean for College of Engineering Search Committee (2021-2022)
- Faculty Senate, College of Science and Engineering Senator, 2019-2021
- Faculty Senate, College of Science and Engineering Senator, 2015-2017
- Appointed Member, University Promotion & Tenure Task Force. (September 2019 - April 2020).
- SACNAS Conference Planning and Organizing Committee: 2015, 2016, 2017, 2018, 2019, 2020
- University Scholarship Committee, College of Science and Engineering Rep., Sep. 2014 - Aug. 2016
- Honors Council, College of Science and Engineering Rep., Sep. 2014 - Aug. 2016
- Department of Computing Sciences Research Committee, Sep. 2015 - Aug. 2016

## TECHNICAL SKILLS

- **Programming:** Matlab, Python, prior coding experience in C++, ASP, SQL

- **GIS/Civil Software:** ArcGIS/ArcPro, GRASS GIS, QGIS, Carlson Survey
- **Image Processing Software:** Pix4D, Metashape, ENVI
- **LiDAR Software:** RiScan Pro, LASTools, SpatialExplorer, TerraSolid, Leica Cyclone, QT Modeler
- **GNSS/INS Software:** Applanix POSPac, Novatel Inertial Explorer
- **Selected Training:** Inertial Explorer Processing, Alta-X flight training (Phoenix Lidar, 2021); Pulse Aerospace Vapor 55 UAS Flight Operations Training (2017); FAA Lone Star UAS Center Flight Operations and Safety Training (2016); Riegl TLS Data Acquisition Training (2014); FAA Ground Observation Training (2014); Leica Advanced Registration with Cyclone (2011); Optech certification in ALTM data processing (2007). Short courses attended include Google Cloud ML, InSAR, and Geostatistics. Extensive Lidar, UAS, and GNSS survey experience.

## PUBLICATIONS

[google scholar](#), [research gate](#)

### Book Chapters

1. Starek, M.J. and Wilkinson, B. (June 8, 2022). Chapter 10: Aerial Surveying Technology (pp. 341-392), in *Surveying and Geomatics Engineering: Principles, Technologies, and Application*, Manual of Practice, published by American Society of Civil Engineers.  
<https://doi.org/10.1061/9780784416037.fm>
2. Starek, M. J., Gingras, M., and Jeffress, G. (2019). Application of unmanned aircraft systems for coastal mapping and resiliency, in *Sustainable Development Goals Connectivity Dilemma (Open Access): Land and Geospatial Information for Urban and Rural Resilience*, edited by Abbas Rajabifard, 109-125., Taylor & Francis Group.
3. Starek, M. J., Harmon, R. S., & Mitasova, H. (2016). Fort Fisher, NC Past and Present: A Geospatial Analysis using LiDAR and GIS. In *Military Geosciences and Desert Warfare – Past Lessons and Modern Challenges* (pp. 95-103). Springer, New York.
4. Starek, M. J. (2016). Airborne Laser Terrain Mapping (ALTM), pp 4-7. Light Detection and Ranging (LIDAR). pp 383-384. MJ Kennish (ed.), *Encyclopedia of Estuaries*.
5. Starek, M. J., Slatton, K. C., Shrestha, R. L., & Carter, W. E. (2009). Chapter 10: Airborne LiDAR Measurements to Quantify Change in Sandy Beaches. *Laser Scanning for the Environmental Sciences*, 147.

### Journal Papers

(\* = corresponding author and/or my student's paper)

#### Refereed

1. \*Pashaei, M., Starek, M. J., Glennie, C., & Berryhill, J. Terrestrial Lidar Point Cloud Classification Using Multi-Echo Raw Waveform Data. *IEEE Transactions on Geoscience and Remote Sensing*, 2023.
2. Shen, X., Clayton, M.K., Starek, M.J., Chang, A., Jessup, R.W. and Foster, J.L., 2023. Identification of Brush Species and Herbicide Effect Assessment in Southern Texas Using an Unoccupied Aerial System (UAS). *Remote Sensing*, 15(13).
3. \*Koskovich, B., Starek, M. and King, S.A., 2022. VirtuaLot—A Case Study on Combining UAS Imagery and Terrestrial Video with Photogrammetry and Deep Learning to Track Vehicle Movement in Parking Lots. *Remote Sensing*, 14(21), p.5451.

4. Vicens-Miquel, M., Medrano, F.A., Tissot, P.E., Kamangir, H., Starek, M.J. and Colburn, K., 2022. A Deep Learning Based Method to Delineate the Wet/Dry Shoreline and Compute Its Elevation Using High-Resolution UAS Imagery. *Remote Sensing*, 14(23), p.5990.
5. Eldefrawy, M., King, S.A. and Starek, M.J., 2022. Partial Scene Reconstruction for Close Range Photogrammetry Using Deep Learning Pipeline for Region Masking. *Remote Sensing*, 14(13), p.3199.
6. Haley, M., Ahmed, M., Gebremichael, E., Murgulet, D. and Starek, M., 2022. Land subsidence in the Texas Coastal Bend: locations, rates, triggers, and consequences. *Remote Sensing*, 14(1).
7. \*Pashaei, M., Starek, M. J., Glennie, C., & Berryhill, J. (2021). Terrestrial Lidar Data Classification Based on Raw Waveform Samples Versus Online Waveform Attributes. *IEEE Transactions on Geoscience and Remote Sensing*, 19.
8. \*Chu, T., Starek, M.J., Berryhill, J., Quiroga, C. and Pashaei, M., 2021. Simulation and characterization of wind impacts on sUAS flight performance for crash scene reconstruction. *Drones*, 5(3), p.67.
9. McMahan, C., Mora, O.E. and Starek, M.J., 2021. Evaluating the Performance of sUAS Photogrammetry with PPK Positioning for Infrastructure Mapping. *Drones*, 5(2), p.50.
10. Starek, M.J., Chu, T., Mitsova, H. and Harmon, R.S., June 2020. Viewshed simulation and optimization for digital terrain modelling with terrestrial laser scanning. *International Journal of Remote Sensing*, 41(16), pp.6409-6426.
11. Culver, M., Gibeaut, J.C., Shaver, D.J., Tissot, P. and Starek, M., 2020. Using Lidar Data to Assess the Relationship Between Beach Geomorphology and Kemp's Ridley (*Lepidochelys kempii*) Nest Site Selection Along Padre Island, TX, United States. *Frontiers in Marine Science*, 7, p.214.
12. Hadimlioglu, I.A., King, S.A. and Starek, M.J., 2020. FloodSim: Flood Simulation and Visualization Framework Using Position-Based Fluids. *ISPRS International Journal of Geo-Information*, 9(3), p.163.
13. Olsen, Z., Grubbs, F., Starek, M.J., Clarkson, E. and Berryhill, J., 2020. Logistical and technical considerations for the use of unmanned aircraft systems in coastal habitat monitoring: A case study in high-resolution subaquatic vegetation assessment. *Shore & Beach*, 88(2), p.46.
14. \*Pashaei, M., Starek, M.J., Kamangir, H. and Berryhill, J., 2020. Deep Learning-Based Single Image Super-Resolution: An Investigation for Dense Scene Reconstruction with UAS Photogrammetry. *Remote Sensing*, 12(11), p.1757.
15. \*Pashaei, M., Kamangir, H., Starek, M.J. and Tissot, P., 2020. Review and evaluation of deep learning architectures for efficient land cover mapping with UAS hyper-spatial imagery: A case study over a Wetland. *Remote Sensing*, 12(6), p.959.
16. \*Nguyen, C., Starek, M.J., Tissot, P.E., Cai, X. and Gibeaut, J., 2019. Ensemble neural networks for modeling DEM error. *ISPRS International Journal of Geo-Information*, 8(10), p.444.
17. \*Nguyen, C., Starek, M.J., Tissot, P. and Gibeaut, J., 2019. Unsupervised Clustering of Multi-Perspective 3D Point Cloud Data in Marshes: A Case Study. *Remote Sensing*, 11(22), p.2715.
18. Aydin, B., Selvi, E., Tao, J. and Starek, M.J. (2019). Use of Fire-Extinguishing Balls for a Conceptual System of Drone-Assisted Wildfire Fighting. *Drones*, 3(1), p.17.
19. Rahnemoonfar, M., Dobbs, D., Yari, M. and Starek, M.J., 2019. DisCountNet: Discriminating and counting network for real-time counting and localization of sparse objects in high-resolution UAV imagery. *Remote Sensing*, 11(9), p.1128.

20. \*Nguyen, C., Starek, M.J., Tissot, P. and Gibeaut, J. (2018). Unsupervised Clustering Method for Complexity Reduction of Terrestrial Lidar Data in Marshes. *Remote Sensing*, 10(1), 133; doi:10.3390/rs10010133.
21. \*Chu, T., Starek, M.J., Brewer, M.J., Murray, S.C. and Pruter, L.S., 2018. Characterizing canopy height with UAS structure-from-motion photogrammetry—results analysis of a maize field trial with respect to multiple factors. *Remote Sensing Letters*, 9(8), pp.753-762.
22. Backoulou, G.F., Elliott, N.C., Giles, K.L., Alves, T.M., Brewer, M. and Starek, M.J., 2018. Using Multispectral Imagery to Map Spatially Variable Sugarcane Aphid Infestations in Sorghum. *Southwestern Entomologist*, 43(1), pp.37-44.
23. Pugh, N., Horne, D.W., Murray, S.C., Carvalho, G., Malambo, L., Jung, J., Chang, A., Maeda, M., Popescu, S., Chu, T. and Starek, M.J., 2018. Temporal Estimates of Crop Growth in Sorghum and Maize Breeding Enabled by Unmanned Aerial Systems. *The Plant Phenome Journal*, 1(1).
24. Backoulou, G., Elliott, N., Giles, K., Brewer, M., Starek, M. J. (2018). Detecting Change in a Sorghum Field Infested by Sugarcane Aphid. *Southwestern Entomologist*, 43(4), 823-832.
25. \*Chu, T., Starek, M.J., Brewer, M.J., Murray, S.C., Pruter, L.S. (2017). Assessing Lodging Severity over an Experimental Maize (*Zea mays* L.) Field Using UAS Images. *Remote Sensing*, 9(9), doi:10.3390/rs9090923.
26. \*Stanton, C., Starek, M.J., Elliott, N., Brewer, M., Maeda, M., Chu, T. (2017). UAS-Derived Crop Height and NDVI Metrics for Sorghum Yield and Aphid Stress Assessment, *Journal of Applied Remote Sensing*, 11(2), doi: 10.1117/1.JRS.11.026035.
27. Chu, T., Chen, R., Landivar, J. A., Maeda, M. M., Yang, C., & Starek, M. J. (2016). Cotton growth modeling and assessment using unmanned aircraft system visual-band imagery. *Journal of Applied Remote Sensing*, 10(3), 036018-036018.
28. Lee, H., Starek, M. J., Blundell, S. B., Schwind, M., Gard, C., & Puffenberger, H. (2016). Estimation of 2-D Clutter Maps in Complex Under-Canopy Environments from Airborne Discrete-Return Lidar. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 9 (12), 5819-5829.
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### Conference Papers

(\* = corresponding author and/or my student's paper)

#### Refereed

1. \*Pashaei, M., Starek, M.J. and Berryhill, J., July 2022. Full-Waveform Terrestrial Lidar Data Classification Using Raw Digitized Waveform Signals. IGARSS 2022 - *IEEE International Geoscience and Remote Sensing Symposium* (pp. 1916-1919). IEEE.
2. Vicens-Miquel, Medrano, A., Tissot, P., Kamangir, H., Starek, M.J., July 2022. Deep Learning Automatic Detection of Wet/Dry Shoreline at Fish Pass, Texas. IGARSS 2022 - *IEEE International Geoscience and Remote Sensing Symposium* (pp. 1876-1879). IEEE.
3. \*Garcia, I.A. and Starek, M.J., 2021, July. Development of a Best Practices Workflow for Rapid Beach Surveying Using a Lower-Cost Mobile Lidar System. In *2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS* (pp. 8233-8236). IEEE.
4. \*Freguete, L., Chu, T., & Starek, M. J. (2021). Mapping with lidar and structure-from-motion photogrammetry: point cloud accuracy assessment over multiple platforms. In *2021 SPIE Proceedings*.
5. \*Freguete, L., Starek, M. J., & Berryhill, J. (2021). Case study of UAS videography for depth inversion within a shallow water surf zone along the Texas Gulf Coast. In *2021 SPIE Proceedings*.
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7. \*Schwind, K.L., Starek, M.J. and Lamb, M., 2021, July. UAS-SFM and Airborne Lidar to Measure Hurricane Impacts and Short-Term Recovery Along Little St. George Island, FL, USA. In *2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS* (pp. 8534-8537). IEEE.
8. \*Isabel Garcia, Michael J. Starek, Tianxing Chu. 2020 . Mobile and Airborne Lidar Scanning of Beach Elevation Change Due to Hurricane Harvey. In *2020 IEEE International Geoscience and Remote Sensing Symposium IGARSS*.
9. \*Bradley Koskowich, Michael J. Starek. 2020. Extracting Camera Pose Using Single Image Super Resolution Networks. In *2020 IEEE International Geoscience and Remote Sensing Symposium IGARSS*.
10. \*Jesse McDonald, Jason Pollard, Michael J. Starek, Dulal Kar. 2020. Surfzone Bathymetry Estimation Using Wave Characteristics Observed by Unmanned Aerial Systems. In *2020 IEEE International Geoscience and Remote Sensing Symposium IGARSS*.

11. \*Garcia, I.A., Starek, M.J. and Brewer, M.J., 2019, July. Assessing VIs Calculated From UAS-Acquired Multispectral Imaging to Detect Iron Chlorosis in Grain Sorghum. In *IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium* (pp. 9224-9227). IEEE.
12. \*Pashaei, M. and Starek, M.J., 2019, July. Fully Convolutional Neural Network for Land Cover Mapping In A Coastal Wetland with Hyperspatial UAS Imagery. In *IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium* (pp. 6106-6109). IEEE.
13. \*Chapman, H., O'Connor, H., Starek, M. J., Kar, (2019). A Framework for Determination of Ocean Wave Properties Using Unmanned Aerial Systems. In *Proceedings of the 2019 International Conference on Scientific Computing (CSC)*, pp. 35-39. The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing.
14. Starek, M.J., Chu, T., Bridges, D. (2018). Evaluation of a Survey-Grade, Long-Range UAS Lidar System: A Case Study in South Texas, USA. In *Proceedings of IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2018*. July 22–27, 2018, Valencia, Spain. 4 pp (in press).
15. \*Koskovich, B., Rhanemoonfar, M., Starek, M.J., (2018). Virtualot – A framework enabling real-time coordinate transformation and occlusion sensitive tracking using UAS products, deep learning, object detection and traditional object tracking techniques. In *Proceedings of IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2018*. July 22–27, 2018, Valencia, Spain. 4 pp (in press).
16. Starek, M. J., Giessel, J. (2017). Fusion of UAS-based structure-from-motion and optical inversion for seamless topo-bathymetric mapping. In IEEE (Ed.), In *Proceedings of 2017 IEEE International Geoscience and Remote Sensing Symposium* (pp. 23-28). IEEE.
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18. Chu, T., Starek, M. J., Brewer, M. J., S. Murray, & Masiane, T. (2017, May). UAS imaging for automated crop lodging detection: a case study over an experimental corn field. In *Proceedings of Commercial+ Scientific Sensing and Imaging* (pp. 102180E-102180E). *International Society for Optics and Photonics (SPIE)*. April 9–13, 2017, Anaheim, California, USA.
19. Lee, H., Starek, M. J., Blundell, S. B., Gard, C., & Puffenberger, H. (2015, July). Probabilistic clutter maps of forested terrain from airborne LiDAR point clouds. In *Proceedings of IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2015*. Milan, Italy (pp. 2654-2657).
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27. Abudiab, M., & Starek, M.J. (2003). Integrating mathematica with C++ for the development of a computational geometry problem solver. *Journal of Computing Sciences in Colleges*, 18(4), 70-78.
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#### *Non-Refereed*

29. Yang, C., Landivar, J., Maeda, M., Jung, J., Starek, M.J., Chu, T., Chang, A. (2017). Comparison of aerial imagery from manned and unmanned aircraft platforms for monitoring cotton growth. In *Proceedings of 2017 Beltwide Cotton Conferences*. January 4-6, 2017, Dallas, Texas, USA. 6 pp.
30. Lee H., Blundell, S.B., Starek, M.J., & Harris, J.G. (2012, October). Modeling Line-of-Sight Visibility Below the Canopy with Airborne Lidar Point Cloud Data. In *Proceedings of MAPPs/ASPRS Specialty Conference*. Tampa FL, October 2012, 12 pp.
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#### **Dissertation**

1. Starek, M.J., Probabilistic Methods for Improved Change Detection and Prediction on Sandy Beaches Using High Resolution Airborne LiDAR, *Ph.D Thesis, University of Florida*, 166 p, 2008.

#### **Trade Publications**

1. M. Gingras and M.J. Starek, Meeting the Spatial Needs of the Third Coast, *ThirdCoastScience.org*, March 2019, 10 pgs.
2. \*M. Schwind and M.J. Starek, Structure-from-Motion Photogrammetry: How to Produce High-Quality 3D Point Clouds, feature article in *GIM International*, V 31 (10), October 2017.
3. M.J. Starek and J. Jung, Lidar's Next Geospatial Frontier, feature article in *GIM International*, July 2015.
4. Jung, J., Starek, M. J., Chang, A., LiDAR research at the Island University, in *LiDAR News*, 3rd ed., vol. 5, pp. 55-59, 2015.
5. M.J. Starek, O'Brien Award Winners: An Interview with Richard Skip Davis, in *Shore and Beach*, Vol 82 (1), Winter 2014.
6. \*T. Davis and M. J. Starek, UAS Surveying of an Island Campus, YoungGeo feature article in *GIM International*, Volume 28 (8), September 2014.
7. J. Wood and M.J. Starek, Review: Manual of Airborne Topographic Lidar, in *PE&RS*, 2013.

#### **Selected Technical Reports**

1. Starek, M.J., Congo, J., Berryhill, J., UAS Data Acquisition and Positioning Evaluation, Report # NCNJ1000-20-0123, Prepared for NOAA Office of Coast Survey, April 2022, 111 pgs.
2. C. A. Quiroga, M. J. Starek, J. Maldonado, E. Kraus, S. Taylor, Y. Ham, and T. Chu. Using Unmanned Aircraft Systems for Crash Reconstructions During Suboptimal Conditions. Report FHWA/TX-17/0-7063-R1. Texas A&M Transportation Institute, Texas Department of Transportation, College Station, Texas, October 2021. <https://tti.tamu.edu/documents/0-7063-R1.pdf>.
3. M.J. Starek and J. Berryhill, Guidelines and Considerations for Surveying of Oil Spill Events on Sandy Beaches with UAS, Texas General Land Office, June 2020.
4. Rizzo, J., Starek, M.J., Jeffress, G., Tissot, P., Technical Report for Regional Geospatial Modeling Grant: Activities at TAMUCC, Semi-Annual Reports (biyearly), 2014-2018.
5. M.J. Starek and L. Deleon, Processing of Raw UAS Data Collected Over Nueces County Owned Property in Kleberg County, County of Nueces, TX, October 2018.
6. M.J. Starek, J. Landivar, C. Yang, Development and Validation of a UAS-based Sensing Platform for Monitoring the Growth and Health of Cotton, Final Report for Texas State Support Committee, Cotton Inc., Project Number: 15-669TX, 29pp., January 24, 2017.
7. M.J. Starek, High-resolution Lidar Observations of Rookery Islands in the Upper Laguna Madre to Define a Monitoring, prepared for Texas General Land Office Coastal Management Program Cycle 19 TGLO Contract # 15-050-000-8395, 79 pp., June 30, 2016.
8. M.J. Starek and H. Lee, Development of Probabilistic Clutter Maps within Complex Forested Terrain Using Airborne Lidar Data, prepared for USACE ERDC Geospatial Research Laboratory, BAA Contract W9132V-14-C-0003, 46 pp., January 31, 2016.
9. Starek, M. J., Gibeaut, J., Del Angel, D., Lidar-based assessment of Hurricane Ike volumetric recovery along the upper Texas coastline. Corpus Christi, Texas: Coastal and Marine Geospatial Lab, Harte Research Institute, Prepared for HDR Engineering/TGLO, 2013.
10. J.C. Fernandez, A. Singhanian, J. Caceres, K.C. Slatton, M. Starek, and R. Kumar, An Overview of Lidar Point Cloud Processing Software, NCALM and University of Florida Geosensing Engineering and Mapping (GEM) Center: Report\_2007\_12\_001, 2007.
11. M. Starek, B. Luzum, R. Kumar, and K.C. Slatton, Normalizing Lidar Intensities, University of Florida Geosensing Engineering and Mapping Center: Report\_2006-12-001, 2006.
12. M. Starek and K.C. Slatton, Basic Gridding of ALSM Point Data, University of Florida Geosensing Engineering and Mapping Center: Report\_2005\_01\_003, 2005.
13. M. Starek, M. Sartori, and K.C. Slatton, ALSM Data Processing, University of Florida Geosensing Engineering and Mapping Center: Report\_2004\_06\_001, 2004.
14. A. Mamatas, M. Starek, and K.C. Slatton, Basic ALSM Data Collection, University of Florida Geosensing Engineering and Mapping Center: GEM\_Rep\_2004\_05\_001, 2004.

## CONFERENCE ABSTRACTS AND PRESENTATIONS

### As Presenting Author or Co-Author

(\* = invited, my name in bold = oral presentation)

1. **\*Starek, M. J., Parrish, C.,** Manda, D., Slocum, R., Simpson, C., Congo, J., Doroba, J. (June 29, 2022) 21st Annual USACE JALBTCX Airborne Coastal Mapping and Charting Workshop, USACE, Kiln, MS.
2. **Starek, M. J.,** Quiroga, C., Berryhill, J. (2022, March) Evaluation of UAS for Crash Reconstructions During Suboptimal Environmental Conditions. ASPRS Annual Virtual Conference.

3. **\*Starek, M. J.** (2022, February). Overview on UAS Littoral Surveying for UNOLS SCOAR Town Hall, AGU Ocean Sciences, virtual.
4. Starek, M. J. Pashaei, M. (2022, January). Direct Classification of Raw Full-Waveform Terrestrial Lidar Data for Land Cover Mapping, 21st Conference on Artificial Intelligence for Environmental Science, AMS Annual Conference (virtual).
5. **\*Starek, M. J., & Quiroga, C.** (2021, August). Evaluation of GNSS Positioning Technologies and SfM software on UAS Photogrammetric Accuracy. TxDOT Surveyors Conference (Seminar). Virtual: Texas Department of Transportation.
6. **Starek, M. J., & Schwind, K.** (2021, February). UAS-SfM Surveying of Hurricane Impacts to Little St. George Island. Apalachicola National Estuarine Research Reserve Research Symposium, virtual.
7. **Starek, M. J.,** Pashaei, M., " Deep Learning–Based Super-Resolution to Enhance UAS Imagery for Coastal Mapping," AMS 101 Annual Meeting and 20th Conf on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, virtual (January 2021)
8. **\*Starek, M.J.** and Pashaei, M., Deep Learning Applications for 2D and 3D Hyperspatial Resolution Coastal Land Cover Mapping, ASPRS Annual Conference, virtual (2021)
9. Quiroga, C. (Author & Presenter), **Starek, M. J.** (Author & Presenter), Kraus, E. (Author & Presenter), "Use of sUAS for Traffic Incident Management during Suboptimal Environmental Conditions," Transportation Research Board 100th Annual Meeting, Transportation Research Board, virtual. (January 21, 2021).
10. **Starek, M. J.,** "Update on UAS Activities at TAMUCC," UNOLS Scientific Committee on Oceanographic Airborne Research (SCOAR), UNOLS. (December 17, 2020).
11. **Starek, M. J.,** Wilson, K., "Drone Survey of Eleuthera Island, Bahamas to Study Impacts of Large Ocean Waves," SACNAS Annual Conference, virtual. (October 2020).
12. **Starek, M.J.,** Pashaei, M., Deep Learning and UAS Aerial Surveying for Hyperspatial Resolution Coastal Land Cover Mapping, ASBPA Annual Conference (virtual), October 13-16, 2020.
13. **Starek, M.J.,** Wilson, K., Processing and Correction of UAS-SfM Surveys without Ground Control of Eleuthera Island in the Bahamas, ASPRS Annual Conference (virtual), June 23, 2020.
14. **Starek, M.J.,** Pashaei, M., Suggesting an Efficient Deep Learning Architecture for Coastal Wetland Land Cover Mapping with UAS Imagery, Joint Session on AI Applications in the Coastal Environment, AMS Annual Conference, Boston, MA, January 15, 2020.
15. **Starek, M. J.,** Evaluating the Accuracy of UAS Structure-from-Motion Survey Products: Lessons Learned, Coastal Bend GIS Day, Corpus Christi, TX. (November 13, 2019).
16. **Starek, M. J.,** UAS for Coastal and Marine Applications, University of Florida Geomatics Program, Gainesville, FL. (November 8, 2019).
17. **Starek, M. J.,** Berryhill, J., Evaluating UAS Surveying for Monitoring of Oiling Events on Sandy Beaches, ASBPA Annual Conference, American Shore and Beach Preservation Association, Myrtle Beach, SC. (October 2019).
18. **Starek, M. J.,** Geospatial Revolution: GIS, Lasers, and Drones, Islander Days: Touch of Class, TAMUCC. (October 19, 2019).
19. **Starek, M. J.,** UAS for Coastal Zone Monitoring of the South Texas Gulf Coast and Beyond, NOAA Hydrographic Services Review Panel (HSRP), NOAA, New Orleans, LA. (August 28, 2019).
20. **Starek, M.J.,** Update on UAS Activities at TAMUCC, UNOLS Scientific Committee on Oceanographic Airborne Research (SCOAR), UNOLS, Northeastern University, Boston MA. (August 22, 2019).

21. **Starek, M. J.**, Pashaei, M., Fully Convolutional Neural Network for Land Cover Mapping In A Coastal Wetland with Hyperspatial UAS Imagery, IEEE IGARSS, IEEE, Yokohama, Japan. (July 2019).
22. **Starek, M. J.**, Nguyen, C., Tissot, P., Cai, X., Modeling DEM Error from 3D Point Clouds with Ensemble Neural Networks, 20th Annual USACE JALBTCX Airborne Coastal Mapping and Charting Workshop, USACE, Notre Dame, IN. (June 2019).
23. **Starek, M. J.**, Monitoring Impacts of Hurricane Harvey to Natural and Built Infrastructure with Lidar and UAS-SfM, Joint: 6th International Conference on Earth Observation for Environmental Changes and the 8th International Conference on Geo-information Technologies for Natural Disaster Management, EOEC-GIT4NDM, Chengdu, China. (June 24, 2019).
24. **Starek, M. J.**, UAS for Coastal Zone Monitoring, TGLO Academic Research Exchange, Texas General Land Office, Austin, TX. (May 3, 2019).
25. **Starek, M. J.**, Berryhill, J., Evaluating UAS Surveying for Monitoring Oiling Events on the Texas Coast, ASBPA Texas Coastal Symposium, American Shore and Beach Preservation Association, Corpus Christi, TX. (April 16, 2019).
26. **Starek, M. J.**, The Hyperspatial Frontier: Topographic Mapping with UAS Photogrammetry and LIDAR, TxDOT Surveyors Conference, Texas Department of Transportation, Austin, TX. (March 26, 2019).
27. **Starek, M. J.**, Chu, T., Evaluation of UAS Lidar vs UAS SfM – A Case Study, ASPRS 2019 Annual Conference, American Society for Photogrammetry and Remote Sensing, Denver, CO. (January 30, 2019).
28. **Starek, M. J.**, UAS for Coastal and Marine Applications, University of Florida Geomatics Program. (November 16, 2018).
29. **M.J. Starek**, Evaluation of a Survey-Grade UAS Lidar System: A Case Study in South Texas, Corpus Christi, TX, GIS Day, November 14, 2018.
30. **M.J. Starek** (poster), Berryhill, J., Gibeaut, J., Evaluating UAS-SfM Change Detection for Oiling Events on Sandy Beaches, American Geophysical Union Fall Meeting, Washington D.C. (December 14, 2018).
31. **M.J. Starek**, 3D Geospatial Information for Sustainable Coasts: Emerging Solutions and Applications, United Nations World Geospatial Information Congress, United Nations, Dequing, China. (November 21, 2018).
32. **M.J. Starek**, Evaluation of a Survey-Grade, Long-Range UAS Lidar System: A Case Study in South Texas USA, IEEE International Geoscience and Remote Sensing Symposium, IEEE, Valencia, Spain. (July 27, 2018).
33. **M.J. Starek**, Nguyen, C., Tissot, P., Cai, X., Unsupervised and Deep Learning for Semantic Segmentation of Imagery and Point Cloud Data in Wetlands, 19th Annual USACE JALBTCX Airborne Coastal Mapping and Charting Workshop, USACE, Providence, RI. (June 28, 2018).
34. **M. J. Starek**, T. Chu, M. Brewer, S. Murray, UAS Surveying for Crop Development Over an Experimental Maize Field., American Society of Civil Engineers (ASCE) UESI 2018 Surveying & Geomatics Conference at California State Polytechnic University, Pomona, CA: April 22-24, 2018.
35. **M.J. Starek**, M. Gringas, C. Nguyen, J. Berryhill. Assessing Coastal Terrain Evolution Following Hurricane Harvey with TLS and UAS Data Fusion. ASPRS IGTF Annual Meeting, Denver, Colorado: March 12-16, 2018.
36. **M.J. Starek**, P. Tissot, and C. Nguyen, Philippe Tissot, Space-Time Cube and Cluster Representation of Evolving Landforms at Local and Regional Scales Using Lidar Time Series Data.

- 16th Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, AMS Annual Meeting, Austin, TX, Jan. 10, 2018.
37. **M.J. Starek**, Assessing 3D Point Cloud Fidelity of UAS-SfM Software Solutions over Varying Terrain, 19th Annual Coastal Bend GIS Day, Corpus Christi, TX, November 15, 2017.
  38. **M.J. Starek**, C. Nguyen, and P. Tissot, Fusion of Terrestrial Laser Scanning and UAS Imaging for Marsh Observation, American Shore and Beach Preservation Association (ASBPA) Annual Conference, Fort Lauderdale, FL, October 26, 2017.
  39. **M.J. Starek**, UAS for Geoinformatics Applications, SACNAS Conference, Salt Lake City, Utah, Oct. 21, 2017.
  40. \***M.J. Starek**, Update on UAS Activities at the Lone Star UAS Test Site and TAMUCC, UNOLS Scientific Committee on Oceanographic Airborne Research (SCOAR), La Jolla, CA, August 16, 2017.
  41. **M.J. Starek** and Z. Giessel, Fusion of UAS Structure-from-Motion and Optical Inversion for Seamless Topo-Bathymetric Mapping, IEEE International Geoscience and Remote Sensing Symposium, Fort Worth, Texas, July 23-28, 2017.
  42. **M.J. Starek** and M. Schwind, Assessing 3D Point Cloud Fidelity of UAS-SfM Software Solutions Over Varying Terrain, 18th Annual USACE JALBTCX Airborne Coastal Mapping and Charting Workshop, Savannah GA, June 6-8, 2017.
  43. \***M.J. Starek**, TAMU-CC UAS Imaging and LiDAR Applications for Geomatics, TEES Research Conference, Prairie View A&M, May 25, 2017.
  44. C. Nguyen, **M.J. Starek**, and P. Tissot, Multi-Scale Voxel Segmentation for Terrestrial Lidar Data within Marshes, ASPRS Imaging & Geospatial Technology Forum, Baltimore MD, March 12-16, 2017.
  45. **M.J. Starek** and M. Schwind, Comparing and Characterizing Three-Dimensional Point Clouds Derived by Structure from Motion Photogrammetry, ASPRS Imaging & Geospatial Technology Forum, Baltimore MD, March 12-16, 2017.
  46. \*Brewer, M., **Starek, M. J.**, & Chu, T. UAS-Derived NDVI and Crop Height Metrics: Assessment of Sorghum and Corn Health Affected by Insects and Plant Characteristics. Presented at 2016 TAMU System Internal UAS Post Season Meeting, January 12, 2017, College Station, Texas, USA.
  47. **M.J. Starek**, UAS Photo-Bathymetry in Shallow Coastal Water: Challenges and Potential, TCC of Houston Remote Sensing Technology Meeting, Technology Collaboration Center of Houston, NASA Johnson Space Center. October 12, 2016.
  48. \***M.J. Starek**, Unmanned Aircraft Systems (UAS) Equipment and Software Basics, Managing Natural Resources with UAVs Symposium, Texas A&M University-Kingsville, Sep. 16, 2016.
  49. **M.J. Starek**, UAS Platforms, Software, and Sensors, Corpus Christi UAS Luncheon, Del Mar College Business Incubation, August 17, 2016.
  50. **M.J. Starek** and B. Nazeri, Evaluation of Active and Passive Aerial Surveying Techniques for Submerged Structure Mapping in Shallow Coastal Water, USACE JALBTCX 17th Annual Coastal Mapping and Charting Workshop, Silver Springs, MD, July 2016.
  51. \***M.J. Starek**, Update on UAS Coastal Activities at the Lone Star UAS Test Site, UNOLS Scientific Committee on Oceanographic Airborne Research (SCOAR), Monterey CA (presented remotely), June 27, 2016.
  52. **M.J. Starek**, S. Lyle, J. Garrett, J. Berryhill, UAS Land Survey Data Model and Workflow Evaluation for Oil and Gas Industry, Texas UAS Summit, Austin, TX, March 29-31, 2016.



53. M.J. Starek (poster) and J. Giessel, Investigation of UAS-based SfM Photogrammetry and Bathymetric Inversion for Mapping a Shallow Water, Low-energy Littoral Zone, AGU Ocean Sciences, New Orleans, Feb. 2016.
54. \***M.J. Starek** and J. Berryhill, Review of UAS Technology for Photogrammetry and Remote Sensing Applications in Resource Monitoring, Society of Range Management 69<sup>th</sup> Annual Conference, Corpus Christi TX, Feb. 2016
55. **M.J. Starek**, 3D Mapping with UAS-based SfM Photogrammetry, 17th Annual Coastal Bend GIS Day, Corpus Christi, TX, November 17, 2015.
56. **M.J. Starek**, Aerial Mapping of Coastlines with Lasers and Drones, SACNAS Conference, National Harbor, MD Oct. 31, 2015.
57. \***M.J. Starek** and S. Lyle, LSDM Workflow & Analysis of Topographic Surface Using Different UAS Solutions, Association of Petroleum Surveying and Geomatics (APSG) Annual Conference, Houston TX, Oct. 29, 2015.
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