

MARINA VICENS MIQUEL

Texas A&M University–Corpus Christi (TAMUCC)

Department of Computing Sciences

mvicensmiquel@islander.tamucc.edu

EDUCATION

- Ph.D. Texas A&M University–Corpus Christi, expected 2025
Geospatial Computer Science Ph.D. Program Current GPA: **3.9**
- B.S. Texas A&M University–Corpus Christi, May 2020
Double Major: Computer Science, Mathematics
Magna Cum Laude

RESEARCH EXPERIENCE

- 2020 – Current NSF AI Institute: Artificial Intelligence for Environmental Sciences (AI2ES)
Graduate Research Assistant, Conrad Blucher Institute at TAMUCC
Research in Wet/Dry Shoreline GeoDetection using Deep Learning, and Water Level and Inundation Prediction using Deep Learning
- 2020 Research Intern at Lone Star UAS Center (LSUASC)
Research in UAV Damage Assessment using Deep Learning
- 2019 COSC Capstone Research Project
Constructed a Deep Learning Neural Network for Detecting Logo Images with Over 99% Accuracy

PUBLICATIONS

- 2018 Rahnemoonfar, M., R. Murphy, M. Vicens Miquel, D. Dobbs, A. Adams.
“Flooded Area Detection from UAV Images Based on Densely Connected Recurrent Neural Networks.” International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain. July 2018.

CONFERENCE PRESENTATIONS AND INVITED TALKS

- 2022 Vicens Miquel, Marina; Medrano, Antonio; Tissot, Philippe; Kamangir, Hamid; Starek, Michael, “Georeferenced AI Wet/Dry Shoreline Detection using UAV Imagery”, To be presented at ESRI Imagery and Remote Sensing Summit.
- 2022 Vicens Miquel, Marina; Medrano, Antonio; Tissot, Philippe; Kamangir, Hamid; Starek, Michael, “Automated Wet/Dry Shoreline Delineation Using Deep Learning”, To be presented at AAG.
- 2022 Vicens Miquel, Marina; Medrano, Antonio; Tissot, Philippe; Kamangir, Hamid; Starek, Michael, “Deep Learning Wet/Dry Shoreline Detection Using UAV Imagery” Joint J12A – Machine Learning Applications in the Coastal Environment, Presented at AMS Conference.
- 2021 Vicens Miquel, Marina; Medrano, Antonio; Tissot, Philippe; Kamangir, Hamid; Starek, Michael, “Wet/Dry Shoreline Detection Using Deep

Learning” *Session B – Coastal Hazards Mapping & Analysis Tools II*,
Presented at ASBPA Conference.

2018 Rahneemofar, Maryam; Robin, Murphy; Vicens Miquel, Marina; Dobbs,
Dugan; Adams, Ashton, “Flooded Area Detection From UAV Images Based
on Densely Connected Recurrent Neural Networks, Presented at IGARSS
Conference.

HONORS AND AWARDS

2021 – 2022	TAMUCC International Presidential Graduate Research Scholarship (\$4,000)
2021 – 2022	TAMUCC College of S&E Graduate Research Scholarship (\$2,000)
2021 – 2022	TAMUCC Geospatial Engineering Graduate Research Scholarship (\$600)
2020 – 2021	TAMUCC International Presidential Graduate Research Scholarship (\$3,141)
2020 – 2021	TAMUCC College of S&E Graduate Research Scholarship (\$1,000)
2020 – 2021	TAMUCC Division of Research and Innovation Student Research Competition Award (\$800)
2020 – 2021	TAMUCC Geospatial Engineering Graduate Research Scholarship (\$1,000)
2019 – 2020	Athletic Department 5 th Year Scholarship (\$10,312.49)
2019 – 2020	Ruth A. Campbell School Endowed Scholarship (\$500)
2019 – 2020	Evening Post Pub Co.–KRIS TV Scholarship (\$500)
2019 – 2020	Exxon USA Found Scholarship (\$500)
2018 – 2019	M Collins UG Scholarship (\$8,400)
2015 – 2020	6-time Dean’s List Recipient
2015 – 2020	8-time Athletic Department Academic Roll Recognition
2015 – 2018	3-time Scholar Student-Athlete