

# Nicholas Chin, E.I.

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## EDUCATION

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### Ph.D. Environmental Engineering Sciences

May 2021-Present

University of Florida, Gainesville, Florida

### M.S. Business Analytics and Information Systems

December 2020

University of South Florida, Tampa, Florida

### B.S. Environmental Engineering Sciences

May 2017

University of Florida, Gainesville, Florida

## RESEARCH AND PROFESSIONAL EXPERIENCE

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### Civil/Environmental Engineer, Black & Veatch Engineering

Tampa, Florida

August 2018 – March 2019

### Environmental Engineer, HSW Engineering

Tampa, Florida

July 2017 – July 2018

### Undergraduate Research Assistant, University of Florida

Gainesville, Florida

August 2016 – February 2017

## PUBLICATIONS

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1. **Nicholas Chin**, David Kaplan, Maitane Olabarrieta, Viyaktha Hithaishi Hewageegana, Luming Shi. (in preparation). Quantifying the effects of national water model freshwater flux predictions on estuarine hydrodynamic forecasts.
2. **Nicholas Chin**, David Kaplan, Nathan Reaver. (in preparation). Forecasting water quality with remote sensing and machine learning in coastal ecosystems using colored dissolved organic matter as a hydrologic tracer.
3. **Nicholas Chin**, David Kaplan, Ron Fick, Enrique Orozco-Lopez. (in preparation). Investigating the drivers of Florida red tide (*Karenia brevis*) blooms across southwest Florida.
4. Miles Medina, Paul Julian II, **Nicholas Chin**, Stephen E. Davis. 2024. An early-warning forecast model for red tide (*Karenia brevis*) blooms on the southwest coast of Florida. <https://doi.org/10.1016/j.hal.2024.102729>

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### PRESENTATIONS AND CONFERENCES

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1. **Nicholas Chin**, Alexis Jackson. 2025. Python and Cluster Analysis in Wetland Science. Society of Wetland Scientists: Student Virtual Conference, February 2025.
2. **Nicholas Chin**, David Kaplan, Ronald Fick. 2024. Investigating the Drivers of Florida Red Tide (*Karenia brevis*) Blooms Across Southwest Florida. American Geophysical Union Fall Meeting Fall Meeting, December 2024, Washington D.C.
3. Alexis Jackson, **Nicholas Chin**. 2024. Precollegiate Education and Training (UF CPET) Summer Program, August 1, 2024, Gainesville, FL.
4. **Nicholas Chin**, David Kaplan, Ronald Fick. 2024. Factors Responsible for Red Tide (*Karenia brevis*) Blooms Across Southwest Florida. Society of Wetland Scientists: South Atlantic Chapter 2024 Conference, June 2024, Pensacola, FL.
5. **Nicholas Chin**, Alexis Jackson. 2024. Machine Learning Applications in Wetland Ecology. Society of Wetland Scientists: Student Virtual Conference, April 2024.
6. **Nicholas Chin**, David Kaplan, Ronald Fick. 2024. Connecting Red Tide (*Karenia brevis*) Bloom Timing and Severity to Environmental Conditions Across Southwest Florida. ESSIE Poster Symposium, February 2024, Gainesville, FL.
7. **Nicholas Chin**, David Kaplan, Ronald Fick. 2024. Connecting Red Tide (*Karenia brevis*) Bloom Timing and Severity to Environmental Conditions Across Southwest Florida. 9th UF Water Institute Symposium, February 2024, Gainesville, FL.
8. **Nicholas Chin**, David Kaplan, Ronald Fick. 2023. Connecting Red Tide (*Karenia brevis*) Bloom Timing and Severity to Environmental Conditions Across Southwest Florida. Center for Coastal Solutions: 2023 Optimizing Solutions for Resilient Coasts Summit Lightning Talk Series, December 2023, Gainesville, FL.
9. **Nicholas Chin**, David Kaplan, Ronald Fick. 2023. Connecting Red Tide (*Karenia brevis*) Bloom Timing and Severity to Environmental Conditions Across Southwest Florida. UF Water Institute Student Seminar Series: Lunch By The Water, October 2023, Gainesville, FL.
10. **Nicholas Chin**, David Kaplan, Ronald Fick. 2023. Quantifying Red Tide Dynamics in Southwest Florida. American Ecological Engineering Society Annual Meeting, June 2023, Tampa, FL.
11. **Nicholas Chin**, David Kaplan. 2023. Quantifying the Effects of National Water Model Prediction Error on Nearshore Hydrodynamic Forecasts. 8th UF Water Institute Symposium, February 2023, Gainesville, FL.
12. **Nicholas Chin**, David Kaplan, Viyaktha Hewageegana, Luming Shi, Maitane Olabarrieta. 2022. Quantifying the Effects of National Water Model Prediction Error on Nearshore Hydrodynamic Forecasts. American Geophysical Union Fall Meeting Fall Meeting, December 2022, Chicago, IL.