

CHEN-YI WU

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 Duke University Mechanical Engineering, 236 Hudson Hall, Box 90300, Durham, NC 27708, U.S.A.
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BIOGRAPHY

Full Name: Chen-Yi Wu**Birthplace and Date:** Taipei, Taiwan – April 5, 1992**Citizenship:** Taiwan**ORCID:** 0000-0003-0274-7055**EDUCATION**

Duke University**Durham, NC***Ph.D., Marine Science & Conservation, Nicholas School of the Environment*

Aug. 2015 – present

- Preliminary Examination Status: Completed (Date Completed: April 27, 2018)
- Selected Courses: Fundamental of GIS and Geospatial Analysis, Data and Time Series Analysis, Aerodynamics, Intro to Scientific Computing

National Cheng Kung University**Tainan, Taiwan***B.S., double major in Hydraulic & Ocean Engineering and Life Sciences*

Sep. 2010 – Jan. 2015

GRANTS, AWARDS & SCHOLARSHIPS

Grants*The Graduate School, Duke University***Durham, NC**

- Dissertation Research Travel Grant: Domestic

2019 – 2020

*The Graduate School, Duke University***Durham, NC**

- Dissertation Research Travel Grant: Domestic

2018 – 2019

Awards*The Graduate School, Duke University***Durham, NC**

- Conference Travel Award

2019 – 2020

*The Graduate School, Duke University***Durham, NC**

- Conference Travel Award

2018 – 2019

*The Society for Marine Mammalogy***Yarmouth Port, MA**

- Student Conference Travel Award

2017

*Institute of Oceanography, National Taiwan University***Taipei, Taiwan**

- Summer Intern Program – Student Poster Presentation Award

2012

Scholarships*Division of Marine Science and Conservation, Duke University***Durham, NC**

- Duke University Marine Lab Endowment Fellowship

2019 – 2020

*The Graduate School, Duke University***Durham, NC**

- William and Janet Hunt Graduate Fellowship – Summer Research Fellowship

2019

*Division of Marine Science and Conservation, Duke University***Durham, NC**

- Lawrence E. Blanchard Scholarship

2016

*Institute of Oceanography, National Taiwan University***Taipei, Taiwan**

- Summer Intern Program Scholarship

2012

PUBLICATIONS, REPORTS & PRESENTATIONS

Publications

Wu, Chen-Yi, Laurens E. Howle, Anna E. Nousek-McGregor, Ross McGregor, Douglas P. Nowacek.

Analyzing flow regime and hydrodynamic forces generated by a gliding North Atlantic right whale through computational fluid dynamics simulations. *Submitted to Marine Mammal Science. In revision.*

Wu, Chen-Yi, Douglas P. Nowacek, Laurens E. Howle. Computational fluid dynamics analysis of gliding North Atlantic right whale models with variable body shapes. *In prep.*

Reports

Chou, Lien-Siang, **Chen-Yi Wu**. 2015. Surveying Chinese white dolphins (*Sousa chinensis*) with unmanned aerial vehicles (UAVs). *2014 Forestry Bureau Research Report: Population ecology and ambient noise monitoring on Chinese white dolphin (Sousa chinensis) habitats*, 40-53.

Chou, Lien-Siang, **Chen-Yi Wu**. 2014. Surveying Chinese white dolphins (*Sousa chinensis*) with unmanned aerial vehicles (UAVs). *2013 Forestry Bureau Research Report: Population ecology and ambient noise monitoring on Chinese white dolphin (Sousa chinensis) habitats*, 48-60.

Oral Presentations

Wu, Chen-Yi, Laurens E. Howle, Anna E. Nousek-McGregor, Ross McGregor, Douglas P. Nowacek. 2020. Computational fluid dynamics analysis of gliding North Atlantic right whale models with variable body shapes. *2020 Society for Integrative and Comparative Biology Annual Meeting, Austin, TX, U.S.A.*

Wu, Chen-Yi, Laurens E. Howle, Anna E. Nousek-McGregor, Ross McGregor, Douglas P. Nowacek. 2019. Computational fluid dynamics simulations of a 10m North Atlantic right whale (*Eubalaena glacialis*). *2019 Society for Integrative and Comparative Biology Annual Meeting, Tampa, FL, U.S.A.*

Wu, Chen-Yi, Laurens E. Howle, Anna E. Nousek-McGregor, Ross McGregor, Douglas P. Nowacek. 2018. Computational fluid dynamics simulations of a 10m North Atlantic right whale (*Eubalaena glacialis*). *2018 North Atlantic Right Whale Consortium Annual Meeting, North Atlantic Right Whale Consortium, New Bedford, MA, U.S.A.*

Wu, Chen-Yi, Laurens E. Howle, Douglas P. Nowacek. 2017. Estimating the induced forces on an entangled North Atlantic right whale (*Eubalaena glacialis*). *22nd Biennial Conference on the Biology of Marine Mammals, Society for Marine Mammalogy, Halifax, NS, Canada.*

Wu, Chen-Yi. 2014. Surveying Chinese white dolphin (*Sousa chinensis*) populations with unmanned aerial vehicles (UAVs). *2014 Independent Research Presentation, Dept. Hydraulic and Ocean Engineering, National Cheng Kung University, Tainan, Taiwan.*

Poster Presentations

Wu, Chen-Yi, Laurens E. Howle, Anna E. Nousek-McGregor, Ross McGregor, Douglas P. Nowacek. 2019. Computational fluid dynamics analysis of gliding North Atlantic right whale models with variable body shapes. *2019 World Marine Mammal Science Conference, Society for Marine Mammalogy and European Cetacean Society, Barcelona, Catalonia, Spain.*

Wu, Chen-Yi, Laurens E. Howle, Douglas P. Nowacek. 2017. ‘Untangling’ the North Atlantic Right Whale Entanglements in Computer Model. *2017 Southeast and Mid-Atlantic Marine Mammal Symposium (SEAMAMMS), Beaufort, NC, U.S.A.*

Wu, Chen-Yi, Hui-Yu Wang. 2012. Where are Larval Fish in Danshui Estuary? – Influences of Tides and River Plume. *2012 IONTU Summer Intern Program, Taipei, Taiwan.*

RESEARCH EXPERIENCES & INTERNSHIPS

Institute of Ecology and Evolutionary Biology, National Taiwan University	Taipei, Taiwan
<i>Intern & Research Assistant (Supervisor: Lien-Siang Chou, Ph.D.)</i>	Feb. 2013 – Dec. 2014
▪ Project: Surveying Chinese white dolphins (<i>Sousa chinensis</i>) with unmanned aerial vehicles.	
Institute of Oceanography, National Taiwan University	Taipei, Taiwan
<i>Intern (Supervisor: Hui-Yu Wang, Ph.D.)</i>	Jul. 2012 – Feb. 2013
▪ Project: Influences of tides and river plume on larval fish distribution in Danshui estuary, Taiwan.	

TEACHING & MENTORSHIP EXPERIENCES

Duke University	Durham, NC
<i>Teaching Assistant</i>	
▪ ENV.102 Introduction to Environmental Science and Policy	Spring 2019
▪ ENV.102 Introduction to Environmental Science and Policy	Fall 2018
▪ BIO.377 Marine Invertebrate Zoology	Summer 2018
▪ BIO.278 Comparative Physiology of Marine Animals	Spring 2018
▪ BIO.369 Biological Oceanography	Fall 2017
▪ BIO.270 Conservation Biology and Policy	Summer 2017
▪ ENV.280 Marine Bioacoustics	Spring 2017
▪ ENV.745 Marine Climate Change	Fall 2016
▪ BIO.270 Conservation Biology and Policy	Summer 2016
▪ BIO.205 Marine Megafauna	Fall 2015

MEMBERSHIPS OF SCIENTIFIC SOCIETY

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- Society for Marine Mammalogy (2013 – present)
 - Society for Integrative and Comparative Biology (2018 – present)

VOLUNTEERING EXPERIENCES

Marine Biology & Cetacean Research Center, National Cheng Kung University	Tainan, Taiwan
<i>Stranding Animals Rescue Volunteer</i>	Nov. 2013 – Jan. 2015

WORKING EXPERIENCE & OTHERS

Sea Whale, Whale-watching Company	Hualien, Taiwan
<i>Whale-watching Naturalist (Full-time in summer)</i>	Jul. 2013 – Jul. 2015
Dept. of Hydraulic and Ocean Engineering, National Cheng Kung University	Tainan, Taiwan
<i>Undergraduate Research Assistant (Part-time)</i>	Sep. 2011 – Jun. 2012

OTHER SKILLS & CERTIFICATES

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- Languages: Mandarin (Fluent), English (Good), and Taiwanese (Fluent)
 - Licensed PADI® Advanced Open Water Diver #16080D0898
 - Wilderness First Aid Certification (American Safety & Health Institute)
 - Computer skills: Microsoft® Office, AutoCAD®, ArcGIS®, Visual Studio® (C#), MATLAB®, Film-making software (including SONY® Vegas and Adobe® Premiere)
 - Photography equipment: DSLR, mirrorless cameras