
CONTACT INFORMATION	University of Miami Rosenstiel School of Marine and Atmospheric Science 4600 Rickenbacker Causeway Miami, FL 33149	Office: MSC 234A E-mail: hdaher@rsmas.miami.edu Cell: (419) 367-3136 Web: www.houraad.github.io
RESEARCH INTERESTS	Ocean instrumentation, modeling, and technology, waves and tides, currents and circulation, ocean dynamics, ice, glaciers, and climate change	
EDUCATION	Ph.D., Ocean Sciences	2016 - Present
	University of Miami, Coral Gables, FL 33146	
	<ul style="list-style-type: none"> • Topic: Quantifying Agulhas Leakage • Advisor: Dr. Lisa Beal 	
	B.S.E., Earth Systems Sciences and Engineering	2011 - 2015
	University of Michigan, Ann Arbor, MI USA	
	<ul style="list-style-type: none"> • Cum Laude • Minor in Mathematics 	
	Study Abroad: Physics of the Climate System	August 2015
	Utrecht University, Utrecht, Netherlands	
	<ul style="list-style-type: none"> • Project: Glaciers and Climate Change 	
RESEARCH EXPERIENCE	Research Scientist	November 2013 to Present
	Dr. Brian Arbic's Physical Oceanography Modeling Lab, Ann Arbor, MI USA	
	<ul style="list-style-type: none"> • Studied the effects of the Earth's rotation rate and ocean's basin geometry on the tidal energy dissipation over long geological timescales • Used ocean model MOM6, developed at GFDL, using university supercomputer FLUX 	
	Systems Engineer Intern	May 2016 to April 2017
	NASA Goddard Space Flight Center, Greenbelt, MD USA	
	<ul style="list-style-type: none"> • Used machine learning algorithms to study Mesoscale Convective System (MCS) characteristics and their predictability • Under the supervision of Dr. Dan Duffy we hoped to find characteristics separating MCS that develop into tornadoes vs those that do not 	
	Visiting Research Scientist	June 2015 to May 2016
	NOAA Great Lakes Environmental Research Laboratory, Ann Arbor, MI USA	
	<ul style="list-style-type: none"> • Forecasted the ice cave season at the Apostle Island National Lakeshore using regression models with Dr. Rebecca Bolinger, Dr. Drew Gronewold, and Dr. Ricky Rood • Project collaboration between UofM College of Engineering Climate and Space Sciences and Engineering, Great Lakes Integrated Sciences + Assessments, and National Park Service 	

PUBLICATIONS &
PRESENTATIONS

Houraa Daher, Adcroft, A., Ansong, J.K, Arbic, B.K., Austermann, J., Maloof, A.C., Mitrovica, J.X., Müller, M. Tidal energy dissipation over the history of the Earth-Moon system. (*in prep*)

Xiaolong Ji, Gronewold, A.D., **Houraa Daher**, Rood, R. (2018). Modeling seasonal onset of coastal ice. Climatic Change. (*submitted*)

Tidal Dissipation over long Geological Timescales* AGU Fall Meeting, San Francisco, CA, USA December 2016

Investigating Mesoscale Convective Systems and their Predictability using Machine Learning Algorithms[◊] AGU Fall Meeting, San Francisco, CA, USA December 2016

Forecasting the Apostle Islands Ice Caves* International Association for Great Lakes Research, Guelph, ON, CA June 2016 (*presented by Dr. Ricky Rood*)

Tidal Dissipation over long Geological Timescales* AGU Ocean Sciences, New Orleans, LA, USA February 2016

Detecting and Attributing Climate Change in Northern Michigan[◊] UROP Symposium, Ann Arbor, MI, USA April 2012

* *oral*, [◊] *poster*

AWARDS AND
HONORS

Stamps Family Charitable Foundation

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- Selection of recipients is based on overall scholarship, character, extra-curricular activities, and financial need

Leaders and Honors: Distinguished Leadership Award

- Awarded to undergraduate and graduate students in College of Engineering who have demonstrated outstanding leadership and service to the College, University, and community

MEMBERSHIPS

- American Physical Society, 2014-Present
- American Geophysical Union, 2015-Present