

Education

University of Rochester

Rochester, NY

2012 - 2016 BS Environmental Science, GPA 3.77/4.00. High Distinction with High Honors in Research

2016 - 2017 Take 5 Scholar in Digital Media and Art

A competitive 5th year full scholarship program to pursue a unique interdisciplinary set of courses.

Research

Massachusetts Institute of Technology

Cambridge, MA

6/2016 - 8/2016 *MIT Summer Research Program intern*, MIT Media Lab Collective Learning Group

Created a storytelling experience based on the group's project DataUSA in virtual reality using Unreal Engine 4 and Vive. Wrote the narrative, programmed data visualizations, and designed interactions with the data.

University of Rochester

1/2015 - 5/2016 *Research Assistant*, Kessler Ocean Biogeochemistry Group**Senior thesis:** determined the spatial distribution and magnitude of sea-to-air methane flux in the Gulf of Mexico. Localized areas of highly elevated flux were detected, suggesting that the ocean may be a greater natural source of methane to the atmosphere than previously thought.1/2015 - 5/2015 *Research Assistant*, Ebinger Active Tectonics and Geophysics Research Group

Aggregated seismic refraction/reflection transects in Appalachia to help determine regional earthquake risk.

Woods Hole Oceanographic Institution

Woods Hole, MA

5/2015 - 8/2015 *Summer Student Fellow*, Wankel Stable Isotope Biogeochemistry Group

Received NSF Research Experience for Undergraduates fellowship. Investigated the impact of Fe(II) on the isotope dynamics of nitrite and nitrous oxide during simultaneous denitrification and chemodenitrification in anaerobic estuarine sediment incubations.

Teaching & Employment

University of Rochester

Spring 2017 *Muralist*, Rush Rhees Library

Commissioned to paint two 14' x 10.5' murals.

Fall 2016, 2015 *Teaching Assistant*, Intro to Geographic Information Systems

Facilitated in-class labs in ArcGIS and created and graded homework.

Spring 2015 *Teaching Assistant*, Intro to Environmental Science

Led two recitation sections per week and graded homework and exams.

3/2013 - 1/2015 *Team Green Marketing Intern*, University of Rochester Dining & Auxiliary Services

Worked on Dining Services' sustainability initiatives; facilitated special events, designed promotional material and infographics, and participated in educational outreach at Rochester Museum and Science Center.

Community Leadership & Service

University of Rochester

9/2013 - *Secretary*, Art & Art History Undergraduate Council.

Organized art exhibitions, hosted public participatory art events, coordinated museum trips, advised students on art and art history courses, and connected students to other art-related opportunities.

1/2016 - 5/2016 *Volunteer Tutor*, Refugee Student Alliance

Tutored former refugee students in grade-school through college in a range of subjects.

4/2013 - 12/2014 *President*, social activist group Students for a Democratic Society

Coordinated a faculty-staff-student community field day, teach-ins/panels, documentary screenings, and other events; facilitated weekly meetings and managed administrative tasks.

4/2013 - 9/2014 *Publicity Chair; Fundraising Chair*, environmental student group Grassroots

Helped organize, run, and advertise events; coordinated a campus-wide dorm supplies recycling fundraiser.

Honors & Awards

- 2017 *Professors' Choice Award (Engineering & Applied Sciences category)*. Awarded for poster presentation of senior thesis by the University of Rochester's Office of Undergraduate Research at the 2017 Research Expo.
- 2017 *First Prize winner of Undergraduate Writing Colloquium Contest (Natural & Applied Sciences category)*. Awarded for senior thesis by the University of Rochester's Writing, Speaking, and Argument Program.
- 2016 *Annalise Kjolhede Memorial Prize for Academic Excellence in Environmental Sciences*. Awarded by the Department of Earth & Environmental Sciences at graduation to one Environmental Science major.
- 2016 - 2017 *Take 5 Scholar*, University of Rochester.
- 2015 *Research Presentation Award*, University of Rochester. Travel grant to present REU research at the American Geophysical Union Fall Meeting 2015.
- 2012 - 2016 *Prince Street Scholarship*, University of Rochester. Annual arts achievement merit scholarship.
- 2013 - 2015 *Dean's List*: Fall 2013, Fall 2014 - Fall 2016.

Presentations

- 4/2017 **Diaz-Etchevehere, D.A.**, Kessler, J.D. *High Resolution Analyses Reveal Elevated Sea-to-air Methane Fluxes in Localized Areas in the Gulf of Mexico*. Poster presentation at the Undergraduate Research Expo, University of Rochester.
- 8/2016 "Data-driven Storytelling in Virtual Reality: a Journey through U.S. Cities." MIT Summer Research Program presentations. MIT Media Lab, Cambridge, MA.
- 12/2015 **Diaz-Etchevehere, D.A.**, Wankel, S.D. *The Impact of Fe(II) on NO₂⁻ Isotopic Composition During Denitrification by Natural Sediment*. Poster presentation at the American Geophysical Union Fall Meeting, San Francisco, CA.

Technical Skills

Java, C, Matlab, Unreal Engine 4, GameMaker: Studio, 3D modeling and animation (Blender), ArcGIS, Adobe CC (Photoshop, Illustrator, InDesign, Premiere, After Effects, Animate), HTML, CSS, Javascript, PHP.

Memberships

- 2015 - American Geophysical Union.

References

John Kessler, Associate Professor, Dept. of Earth & Environmental Sciences, University of Rochester
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Senior thesis advisor.

Cynthia Ebinger, Marshall-Heape Chair in Geology, Dept. of Earth & Environmental Sciences, Tulane University
cebinger@tulane.edu
Research supervisor at Active Tectonics and Geophysics Lab and senior thesis committee reader.

Takahito Ito, Visiting Scientist at MIT Media Lab and Video Engineer at Japan Broadcasting Company (NHK)
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Research advisor at MIT Media Lab's Collective Learning Group during MIT Summer Research Program.