Dylan C. Gaeta

Department of the Geophysical Sciences
The University of Chicago

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Education

- **Ph.D. in Geochemistry** 2016 – Present
  University of Chicago

- **B.A. in Chemistry** (*cum laude* with Highest Distinction) 2012 – 2016
  University of Rochester

- **B.S. in Applied Mathematics** (*cum laude* with Distinction) 2012 – 2016
  University of Rochester

Research Experience

- **Graduate Research Assistant** 2016 – Present
  University of Chicago, Department of Geophysical Sciences, Origins Laboratory
  - Geochemistry of the early Earth, paleoclimate, origin of life
  - Advisor: Dr. Nicolas Dauphas

- **NSF International REU Fellow** 2015
  Technische Universität Graz, Institut für Chemische von Materialien
  - Lithium ion dynamics in metal-organic framework filled poly(ethylene oxide) composite membranes
  - Advisor: Dr. Martin Wilkening

- **Undergraduate Research Assistant** 2014 – 2015
  University of Rochester
  - Photocatalytic H_2 generation using PbSe/CdSe core-shell semiconductor nanocrystals as aqueous chromophores
  - Advisor: Dr. Todd Krauss

- **NSF REU Fellow / McNair Scholar** 2014
  University of Rochester
  - Design of synthetic methods for water-stable PbSe quantum dots with size selectivity
  - Advisor: Dr. Todd Krauss

Teaching Experience

- **Teaching Assistant** for Dr. Fred Ciesla — Autumn 2017
  University of Chicago, The College – Physical Sciences
  - PHSC 10800 – *Earth as a Planet*

- **Teaching Assistant** for Dr. Elisabeth Moyer — Spring 2017
  University of Chicago, Department of Geophysical Sciences
  - GEOS 24750 – *Energy: Science, Technology, and Human Usage*

- **Teaching Assistant** for Dr. Noboru Nakamura — Winter 2017
  University of Chicago, The College – Physical Sciences
  - PHSC 13600 – *Natural Hazards*

- **Editor** with Dr. Lewis Rothberg — Summer 2016
  University of Rochester, Department of Chemistry
  - "Molecular Spectroscopy" textbook/lab manual by John S. Muenter, for use in laboratory course CHM 232 – *Molecular Spectroscopy*

- **Teaching Assistant** for Dr. James Farrar — Spring 2016
  University of Rochester, Department of Chemistry
  - CHM 252 – *Physical Chemistry II: Molecular Thermodynamics*

- **Teaching Assistant** for Dr. Benjamin Hafensteiner — Spring 2016
  University of Rochester, Department of Chemistry
  - CHM 204 – *Organic Chemistry II*

- **Teaching Assistant** for Dr. Lewis Rothberg — Autumn 2015
  University of Rochester, Department of Chemistry
  - CHM 251 – *Physical Chemistry I: Quantum Chemistry*

- **Teaching Assistant** for Dr. Joshua Goodman — Autumn 2015, Autumn 2014
  University of Rochester, Department of Chemistry
  - CHM 203 – *Organic Chemistry I*

- **Teaching Assistant** for Dr. Bradley Nilsson — Spring 2015
  University of Rochester, Department of Chemistry
  - CHM 204 – *Organic Chemistry II*

- **Teaching Assistant** for Dr. Benjamin Hafensteiner — Autumn 2014
  University of Rochester, Department of Chemistry
  - CHM 131 – *Chemical Concepts, Systems, and Practice I*

- **Teaching Assistant** for Dr. James Farrar — Spring 2014
  University of Rochester, Department of Chemistry
  - CHM 132 – *Chemical Concepts, Systems, and Practice II*

- **Teaching Assistant** for Dr. Oleg Prezhdo — Autumn 2013
  University of Rochester, Department of Chemistry
  - CHM 131 – *Chemical Concepts, Systems, and Practice I*

Field Work

- **StratoClim Aircraft Campaign** 2017
  Kathmandu, Nepal
  - The Chicago Water Isotope Spectrometer (Chi-WIS) instrument team
  - 8 science flights via the M55 Geophysica high-altitude research aircraft

Honors and Awards

- Ronald E. McNair Scholar 2013 – 2016
- Chemistry Department Award, University of Rochester 2016
- Carl A. Whiteman, Jr. Teaching Award, University of Rochester 2016
- New York State Scholarship for Academic Excellence 2012 – 2016
- Dean's Scholarship, University of Rochester 2012 – 2016
- Junior Scholar Award, University of Rochester, Department of Chemistry 2015

Talks and Presentations

- "Water Vapor and Earth's Climate." EPIC/RDCEP Lunch and Learn Series. **Dylan Gaeta** (talk). 2017
- "Photocatalytic Hydrogen Generation using Lead Selenide Quantum Dots." Kearns Research Symposium, University of Rochester. **Dylan Gaeta**, Amanda Preske, Todd Krauss (talk). 2014
- "Synthesis of PbSe Quantum Dots for Photoinduced H_2 Generation." University of Rochester, Chemistry REU Day. **Dylan Gaeta**, Amanda Preske, Todd Krauss (poster). 2014

Outreach

- **Public talk** at Green Drinks, Kankakee – Get Your Head in the Clouds! 2017
  - "The Influence of Clouds on the Climate: Past, Present, and Future"
- **Science Expo Table**, Field Museum Campus 2017