

Daniel P. Erdosy
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EDUCATION

Harvard University Ph.D., Chemistry National Defense Science and Engineering Graduate Fellow, 2019	Cambridge, MA May 2023
Brown University Sc.B., Chemical Physics	Providence, RI May 2017

SELECTED POSTERS & PUBLICATIONS

- **Erdosy, D. P.**[†] et al. “Microporous Water with High Gas Solubilities”, *Nature*, **2022**, *608*, 712-718, **Cover**. ([†] *Indicates equal author contribution*)
- Thorarinsdottir, A.;[†]**Erdosy, D. P.**[†] et al. “Enhanced activity for the oxygen reduction reaction in microporous water”, *Nature Catalysis*, **2023**, *6*, 425-434.
- DelRe, C.; Hong, H.; Wenny, M.; **Erdosy, D. P.** et al. “Design Principles for Using Amphiphilic Polymers To Create Microporous Water” *J. Am. Chem. Soc.*, **2023**, *145*, 19982-19988.
- Calvin, J. J.; DelRe, C.; **Erdosy, D. P.** et al. “Thermodynamics of Polyethylene Glycol Intrusion in Microporous Water”, *ChemRxiv*, **2024**.
- DelRe, C.;[†] Hong, H.;[†] Jimenez-Angeles, F.;[†] Wenny, M. B.; **Erdosy, D. P.** et al., “Manipulating the Properties of Microporous Water through Protein Coatings on Hydrophobic Zeolitic Imidazolate Frameworks”, *Submitted*, **2024**.
- Mason, J.; Cho, J.; DelRe, C.; **Erdosy, D. P.**; Wenny, M. B.; *Patent filed*, **2021**.
- Mason, J.; Thorarinsdottir, A.; **Erdosy, D. P.**; Nocera, D. G. *Patent filed*, **2023**.
- Mason, J.; **Erdosy, D. P.**; Peng, Y. *Patent filed*, **2024**.

RESEARCH EXPERIENCE

Harvard University, Department of Chemistry and Chemical Biology Graduate Student (Advised by Jarad Mason, Assistant Professor) Post-doctoral Fellow at the Mason lab	Cambridge, MA 2017 - 2023 2023 - present
<ul style="list-style-type: none">• Led discovery of transformative technology featured on the cover of <i>Nature</i>; the technology increases the oxygen carrying capacity of water by up to 5000%, enabling water to hold more oxygen than pure oxygen gas on a volumetric basis.• Management experience, mentoring three undergraduate and four graduate researchers.• Developed an award-winning business plan for our technology, winning 2nd place at Harvard Business School’s New Venture Competition out of 84 teams. Selection was made by panel of judges that included CEOs, Managing Directors, and firm Partners from multi-billion dollar companies/funds.• Communicated with high-value prospective clients, including 4 VPs at 3 multi-billion dollar companies, and entered into talks with one of the largest global contract development and manufacturing organizations (CDMOs)• Accepted to MIT Spark, geared towards helping STEM entrepreneurs commercialize technologies.	

OUTREACH

Project Teach Volunteer	2022 - present
<ul style="list-style-type: none">• Helped conduct 14 interactive demo sessions on cryogenic manipulation for a total of over ~150 pre-college students from underrepresented backgrounds to learn about STEM at Harvard laboratories.	