

**Daniel P. Erdosy**  
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## EDUCATION

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

## SELECTED POSTERS & PUBLICATIONS

- **Erdosy, D. P.**<sup>†</sup> et al. “Microporous Water with High Gas Solubilities”, *Nature*, **2022**, *608*, 712-718, **Cover**.  
(<sup>†</sup> Indicates equal author contribution)
- Thorarinsdottir, A.;<sup>†</sup>**Erdosy, D. P.**<sup>†</sup> 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.;<sup>†</sup> Hong, H.;<sup>†</sup> Jimenez-Angeles, F.;<sup>†</sup> 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

<b>Harvard University, Department of Chemistry and Chemical Biology</b> 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"><li>• <b>Led discovery of transformative technology featured on the cover of <i>Nature</i></b>; 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.</li><li>• <b>Management experience, mentoring</b> three undergraduate and four graduate researchers.</li><li>• <b>Developed an award-winning business plan</b> for our technology, winning 2<sup>nd</sup> 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.</li><li>• <b>Communicated with high-value prospective clients</b>, 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)</li><li>• <b>Accepted to MIT Spark</b>, geared towards helping STEM entrepreneurs commercialize technologies.</li></ul>	

## OUTREACH

<b>Project Teach</b> Volunteer	2022 - present
<ul style="list-style-type: none"><li>• 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.</li></ul>	