

Theodore J. Dilenschneider

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EDUCATION

- The University of Texas at Austin, Austin, TX** August 2017-Present
Graduate Research Assistant, PhD Candidate
GPA: 3.84 (cumulative)
- The University of Notre Dame, Notre Dame, IN** May 2017
Bachelor of Science in Chemical Engineering, Cum Laude, Thesis
GPA: 3.752 (cumulative)
- The Ohio State University, Columbus, OH** May 2013
Post-Secondary
GPA: 3.900
- Dublin Jerome High School, Dublin, OH** May 2013
High School Diploma, Valedictorian

EXPERIENCE AND EMPLOYMENT

- EnergyX Inc, Austin, Texas** March 2019-Present
Chief Science Officer
 - Managed the operational and financial actions of EnergyX Inc of research and development
 - Developed a multinational, multi-institutional research effort for implementing lab discoveries in the field
 - Fielded scientific questions to customers and potential scale-up partners
- University of Texas at Austin, Austin, Texas** August 2017-Present
PhD Candidate
 - Characterized the structure-property relations of novel membrane materials
 - Synthesized metal organic framework based mixed matrix membranes
 - Managed multinational projects between Australia's national lab system (CSIRO), UT Austin, and a membrane start-up called EnergyX Inc.
- University of Texas at Austin, Austin, Texas** January 2018-Present
Graduate Teaching Assistant, Transport Processes
 - Conducted weekly recitation sections to reinforce important concepts
 - Worked with students on homework and exam preparation during weekly office hours
- W.A.T.E.R Laboratory, Notre Dame, Indiana** November 2014-May 2017
Undergraduate Researcher
 - Developed multi-functional block copolymer membranes
 - Investigated the effect of ion valence number, solution pH, and ionic strength on charged copolymer membrane performance
 - Utilized novel reaction methods and ink jet printing to craft anti-fouling membranes
- Learning Resource Center, Notre Dame, Indiana** August 2014-May 2017
Tutor
 - Mentored Intro to Linear Algebra and Differential Equations and Multivariable Calculus.
 - Instructed interactive group learning sessions.
- Germain Honda, Dublin, Ohio** December 2012-August 2014
Lot Technician
 - Inspected vehicles, assigned stock control numbers, delivered sold vehicles, serviced vehicles in storage, and assisted customers.
- Tartan Fields, Dublin, Ohio** May 2011-August 2012
Lifeguard
 - Received Red Cross certified lifeguard training, pool maintenance, provided services for patrons, and provided first aid.
- Painter, Self-Employed, Columbus, Ohio** May 2010-August 2013
Co-Manager
 - Worked in a team of two to strip siding and power-wash decks

- Painted interior rooms, outdoor enclosures, industrial/government buildings, and outdoor patios/decks

SELECTED PUBLICATIONS AND PRESENTATIONS

- Siyi Qu, Theodore Dilenschneider, William A. Phillip “Preparation of Chemically-Tailored Copolymer Membranes with Tunable Ion Transport Properties” ACS Applied Materials & Interfaces. Advance online publication. doi:10.1021/acsami.5b05592
- Theodore J. Dilenschneider, Siyi Qu, William A. Phillip “Versatile Nanofiltration Membranes with Plug and Play Chemistries” 12th National Graduate Research Polymer Conference, Akron, OH. June 2016.
- Theodore J. Dilenschneider, Siyi Qu, William A. Phillip “Versatile Nanofiltration Membranes” Undergraduate Scholars Conference 2016, Notre Dame, IN. April 2016
- Theodore J. Dilenschneider, William A. Phillip “Plug and Play: Charged Nanofiltration Membranes” Energy Week 2015, Notre Dame, IN. Oct 2015.
- Theodore J. Dilenschneider, William A. Phillip “Plug and Play: Charged Nanofiltration Membranes” Undergraduate Scholars Conference, Notre Dame, IN. May 2015.

AWARDS AND RECOGNITION

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| Franklin Endowed Graduate Fellowship in Engineering <i>University of Texas at Austin</i> | August 2017 |
| <ul style="list-style-type: none"> • Merit fellowship from the Cockrell School of Engineering at the University of Texas at Austin. | |
| Slatt Fellowship <i>University of Notre Dame</i> | Summer 2016 |
| <ul style="list-style-type: none"> • Merit research fellowship from the Center for Sustainable Energy at the University of Notre Dame. | |
| Provost Scholarship <i>University of Notre Dame</i> | April 2013 |
| <ul style="list-style-type: none"> • Merit scholarship from the Notre Dame Club of Columbus, Ohio | |
| Glenna R. Joyce Scholarship <i>The Ohio State University</i> | April 2013 |
| <ul style="list-style-type: none"> • Tuition, room and board, books, supplies, and stipend. Declined. | |

SKILLS

Language: English

Computer: ASPEN, MATLAB, Python AutoCAD, LabVIEW, Microsoft Office, Excel, PowerPoint