

**Andrew Lin Yeang**  
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832-687-7310

**Education:**

**University of Colorado Boulder**

Ph.D. Chemical Engineering 08/2022 (expected)  
Advisor: Michael D. McGehee

M.S. Chemical Engineering 12/2018  
GPA: 3.93/4.00

**The University of Texas at Austin** 12/2016

B.S. Chemical Engineering with Honors; Minor: Spanish  
GPA: 3.81/4.00

**Presentations:**

**Design of Reversible Electroplating Cells for Energy-Saving Windows** 05/2019  
*University of Colorado Boulder, Department of Chemical & Biological Engineering, Boulder, CO*  
Yeang, A.L., Hernandez, T.S., Strand, M.T., Barile, C.J., McGehee, M.D.  
Research presentation at the 235<sup>th</sup> Electrochemical Society (ECS) Meeting in Dallas, TX

**Electrolyte and Electrode Engineering for Dynamic Windows based on Reversible Metal Electrodeposition** 08/2018  
*University of Colorado Boulder, Department of Chemical & Biological Engineering, Boulder, CO*  
Hernandez, T.S., Strand, M.T., Yeang, A.L., Barile, C.J., McGehee, M.D.  
Poster Presentation at the International Meeting on Electrochromics – 13 in Chiba, Japan

**Synthesis of Single-Ion Conducting Precursors** 12/2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Yeang, A.L., Wheatle, B.K., Lynd, N.A.  
Undergraduate Research Poster Session in Austin, TX

**Synthesis of Novel Polyethers for Diverse Application** 05/2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Yeang, A.L., Wheatle, B.K., Lynd, N.A.  
Undergraduate Research Poster Session in Austin, TX

**Professional Experience:**

**Graduate Research Assistant** 07/2018-Present  
*University of Colorado Boulder, Department of Chemical & Biological Engineering, Boulder, CO*  
Advisor: Michael D. McGehee, Ph.D.  
Project: Counter Electrode Design for Dynamic Windows based on Reversible Metal Electrodeposition.

**Undergraduate Research Assistant** 11/2015-12/2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Advisor: Nathaniel A. Lynd, Ph.D.  
Projects: Synthesis of Single-Ion Conducting Precursors; Synthesis of Novel Polyethers for Diverse Application.

**Industrial Plant Operations Intern** 06/2016-08/2016  
*Air Liquide, Ghent, KY*  
Performed daily tests to ensure safe function of two separate air separation units manufacturing plants in addition to the following projects: Progressed valve automation project to design review level: \$12,000 savings. Prepared plants for Industrial Management System Audit by ensuring updated and safe equipment and work areas.

**Process Optimization Intern** 06/2015-08/2015  
*BASF, Angleton, TX*  
Collected, organized, and analyzed data from manufacturing plant to optimize synthesis section of production plant. Participated in week-long Technical Process Optimization workshop to present data to encourage discussion to optimize plant performance.

**Leadership and Outreach:**

**Undergraduate Research Mentor** 01/2019-Present  
*University of Colorado Boulder, Department of Chemical & Biological Engineering, Boulder, CO*  
Mentor undergraduate students by teaching lab practices and incorporating them into normal work flow of research. Design experiments that are both appropriate for the student and complement the lab's research goals.

**Junior Achievement (JA) Student Teacher** 04/2019  
*Eldorado K-8 School, Superior, CO*  
Taught a 2<sup>nd</sup> grade classroom lessons in professional development regarding economics, communities, jobs, and decision making.

**Budget Coordinator, Student Annual Research Symposium (StARS)** 08/2018-10/2018  
*University of Colorado Boulder, Department of Chemical & Biological Engineering, Boulder, CO*  
Ensured adequate funding for day-long interdisciplinary research conference to connect graduate students with industry representatives and students from other departments.

**The Well Kids Volunteer** 01/2018-Present  
*The Well Church – Boulder, Boulder, CO*  
Assist in teaching preschool (ages 3-4) class (12-20 students) once/month.

**Math Tutor** 10/2017-10/2018  
*New Vista High School, Boulder, CO*  
Tutored students individually in various math subjects (Algebra, Geometry, Trigonometry).

**President, Tau Beta Pi (TBP), The Engineering Honor Society** 08/2016-10/2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Led and organized direction of TBP including 15 officers, 45 candidates, and 20 actives participated in Annual National Convention to lead direction of national organization. Chapter won national awards: Chapter Excellence Award (outstanding organization and execution of events) and Chapter Project Award (outstanding impact on the community for events hosted).

**Fundraising Coordinator, TBP** 01/2016-05/2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Planned and led all fundraising efforts for TBP: hamburger and hotdog sales, brainstormed new ideas to increase profits: bubble tea fundraiser, bacon addition, stocked office with snacks and drinks. Raised over \$1,200 for chapter.

**Service Coordinator, TBP** 08/2015-12/2015  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Planned and led service events for TBP, ranging from creek clean ups to tutoring. Chapter logged over 550 service hours for semester.

**UTeach Student Teacher** 01/2015-05/2015  
*The University of Texas at Austin, Austin, TX*  
Planned, organized, and taught science lessons to a primarily Hispanic elementary school class.

**Small Group Bible Study Leader, InterVarsity Christian Fellowship** 2014-2016  
*The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX*  
Mentored 5-8 students; organized service projects, outings, and Bible study meetings.

**Awards:**

Graduate Assistantship in Areas of National Need (GAANN) Fellow:	2019-2020
National Science Foundation (NSF) GRFP Honorable Mention	2019
Dean's Graduate Assistantship: \$30,000	2017
ChBE Doctoral Fellowship: \$2,500	2017
Gee Family Association Education Fund (GFAEF) Scholarship: \$1,500	2017
Jodie and Mary Isenhower Endowed Presidential Scholarship: \$2,500	2015
William A. & Mary B. Cunningham Scholarship in Chemical Engineering: \$1,000	2015
Gee Family Association Education Fund (GFAEF) Scholarship: \$1,500	2015
Leaton Thomas Oliver Scholarship in Chemical Engineering: \$1,000	2014
Gee Family Association Education Fund (GFAEF) Scholarship: \$1,500	2014
The University of Texas at Austin Honors Scholarship: \$1,000	2013
University Honors, The University of Texas at Austin	2013-2016

**Skills:**

Lab: Electrochemical Techniques: Cyclic Voltammetry (CV), Chronoamperometry (CA), Chronopotentiometry (CP). UV-vis spectrometer, AFM, SEM, Freeze Pump Thaw, Short Distillation, Anionic Polymerization, <sup>1</sup>H and <sup>13</sup>C NMR

Computation: MATLAB, Java

**Professional Associations:**

Tau Beta Pi, The Interdisciplinary Engineering Honor Society  
Omega Chi Epsilon, Chemical Engineering Honor Society

2015  
2014