

Hyun Hwa (Hannah) Jo
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EDUCATION

- 09/2010 – 08/2015 **Ph.D. in Chemistry** (Organic Division)
The University of Texas at Austin
Research Advisor: Dr. Eric V. Anslyn
Dissertation Title: "Optical Chirality Sensing Ensembles: Mechanistic Studies and Applications in Synthetic Methodology Development"
- 06/2008 – 05/2010 **B.S. in Chemistry** (College of Chemistry)
University of California at Berkeley
Research Advisor: Dr. Gabor A. Somorjai
- 09/2006 – 05/2008 Stony Brook University (SUNY)

TEACHING EXPERIENCE

- 08/2023 - Current **Visiting Assistant Professor**
Department of Chemistry, Whitman College WA
Organic Chemistry I, Organic Chemistry I Laboratory, General Chemistry I Laboratory
- 08/2020 – 06/2022 **Visiting Assistant Professor**
Department of Chemistry and Biochemistry, Providence College RI
Organic Chemistry I & II, Organic Chemistry I & II Laboratory (Hybrid in 2020-21, F2F in 2021-22)
- 01/2020 – 05/2020 **Visiting Instructor**
Department of Chemistry, Wheaton College MA
Organic Chemistry I (F2F to online)
Adjunct Faculty
Department of Chemistry, Emmanuel College MA
Organic Chemistry II Laboratory (F2F)
- 01/2017 – 05/2017 **Teaching Specialist**
Department of Chemistry, The University of Texas at Austin
Organic Chemistry Laboratory (CH, CHE, and non-major)
- 09/2010 – 08/2015 **Graduate Teaching Assistant**
Department of Chemistry, The University of Texas at Austin
Physical Organic Chemistry (Graduate level), Organic Chemistry I & II, Organic Chemistry Laboratory
- 09/2008 – 12/2009 **Jefferson Elementary School Outreach**
University of California at Berkeley Student Organization
- 01/2008 – 05/2008 **Undergraduate Tutorial Assistant**
Stony Brook University
General Chemistry

RESEARCH EXPERIENCE

- 07/2017 – 07/2019 **Postdoctoral Fellow**
New York University
Research Advisor: Dr. Daniela Buccella
- Developed and optimized molecular probes for intracellular magnesium detection
 - Investigated the regulation of metal transporter proteins with microRNA array analysis
- 10/2015 – 12/2016 **Postdoctoral Fellow**
The University of Texas at Austin
Research Advisor: Dr. Eric V. Anslyn
- Developed indicator displacement systems for metal sensing and differential sensing for the stereoselective identification and quantitation of amino alcohols

PUBLICATIONS

6. Boulgakov, A.A.[†]; Moor, S.R.[†]; **Jo, H.H.**[†]; Joyce, L.A.; Marcotte, E.M.; Welch, C.J.; Anslyn, E.V. "Next Generation TLC: A Quantitative Platform for Parallel Spotting and Imaging" *J. Org. Chem.* **2020**, *85*, 9447–9453. (*Front Cover*) [†] Indicate equal contribution
5. Beyeh, N. K.; **Jo, H.H.**; Fan, F.; Kolesnichenko, I.; Anslyn, E.V.; Rissanena, K. "Recognition of Viologen Derivatives in Water by *N*-Alkyl Ammonium Resorcinarene Chlorides" *J. Org. Chem.* **2017**, *82*, 5198–5203.
4. **Jo, H.H.**; Gao, X.; You, L.; Anslyn, E.V.; Krische, M.J. "Application of a High-throughput Enantiomeric Excess Optical Assay Involving a Dynamic Covalent Assembly: Parallel Asymmetric Allylation and *ee* Sensing of Homoallylic Alcohols" *Chem. Sci.* **2015**, *6*, 6747–6753.
3. Beyeh, N. K.; Ala-Korpi, A.; Fan, F.; **Jo, H.H.**; Anslyn, E.V.; Rissanena, K. "Cooperative Binding of Diamides by *N*-Benzyl Ammonium Resorcinarene Chlorides" *Chem. Eur. J.* **2015**, *21*, 9556–9562.
2. **Jo, H.H.**; Edupuganti, R.; You, L.; Dalby, K.N.; Anslyn, E.V. "Mechanistic Studies on Dynamic Multi-component Covalent Assemblies of Metal-mediated Hemi-aminal Ethers" *Chem. Sci.* **2015**, *6*, 158–164.
1. **Jo, H.H.**; Lin, C.-Y.; Anslyn, E.V. "Rapid Optical Methods for Enantiomeric Excess Analysis: From Enantioselective Indicator Displacement Assays to Exciton-coupled Circular Dichroism" *Acc. Chem. Res.* **2014**, *47*, 2212–2221.

BOOK CONTRIBUTIONS

1. Diehl, K.L.; **Jo, H.H.**, *et al*; Anslyn, E.V. Chapter 2. Design and Synthesis of Synthetic Receptors for Biomolecule Recognition. In *Synthetic Receptors for Biomolecules*, ed. B.D. Smith, RSC Publishing, **2015**, 39–85.

PRESENTATIONS

- *American Chemical Society 248th Meeting, San Francisco, CA, USA, August 2014 (Oral)*
Jo, H.H.; You, L.; and Anslyn, E.V.
- *Mardi Gras Symposium 2014, New Orleans, LA, USA, February 2014 (Poster)*
Jo, H.H.; You, L.; and Anslyn, E.V.
- *Chirality 2012, Dallas, TX, USA, June 2012 (Poster)*
Jo, H.H.; You, L.; and Anslyn, E.V.

PROFESSIONAL AFFILIATIONS

- Alpha Chi Sigma (Professional Chemistry Fraternity)
- American Chemical Society (ACS)
- The New York Academy of Sciences (NYAC)
- National Postdoc Association (NPA)

AWARDS AND RECOGNITIONS

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| • Dan Su Travel Award | 2018 |
| • Dorothy A. Banks Fellowship | 2014 |
| • Graduate Student Professional Development Awards | 2014 |
| • Lab Safety Competition 1 st Place | 2014 |
| • Alpha Chi Sigma | 2009 |
| • Berkeley International Office Financial Aid Award for International Students | 2009 |
| • Dean's List for 3 Semesters | 2006 – 2008 |