

Wenjie Fei, Ph.D.

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Education

Columbia University , New York, NY Ph.D. in Chemical Engineering <u>Thesis</u> : Magneto-capillary dynamics of particles at curved liquid interfaces	May 2019
The Pennsylvania State University , University Park, PA M.S. in Chemical Engineering	August 2016
University of Minnesota - Twin Cities , Minneapolis, MN B.S. Double Major: Chemical Engineering; Chemistry	May 2014

Professional Experience

Texas Tech University , Lubbock, TX Assistant Professor - Civil, Environmental, & Construction Engineering Instructor	September 2025 - Present September 2022 – August 2025
PPG Industries , Pittsburgh, PA Research Engineer – Coatings Innovation Center	August 2019 – May 2022
Columbia University , New York, NY Graduate Research Assistant – Bishop Research Group (formerly at Penn State University) Laboratory Manager Graduate Teaching Assistant - Chemical Engineering Essentials	2014 – May 2019 August 2016 – May 2019 September 2016 - December 2016
University of Minnesota – Twin Cities , Minneapolis, MN Undergraduate Research Assistant – Kokkoli Research Group <i>UMN UROP Award Project: Liposomes for targeted drug delivery</i>	October 2011 – May 2014
Ecolab, Inc. , Eagan, MN Chemist Intern - Corporate Technologies Hard Surface Lab	June 2013 – August 2013

Publications

- D. Li, K. Wang, W. Liu, Xi.-M. Wang, Y. Li, **W. Fei**, Z. Li, Y. Shen, X. Huang, 3-Dimensional nanoscale structure of polyamide nanofiltration membranes revealed by electron tomography, *Journal of Membrane Science*, 124531 (2025).
- **W Fei**, P.M. Tzelios, K.J.M. Bishop, Magneto-capillary particle dynamics at curved interfaces: Time-varying fields and drop mixing. *Langmuir*. 36, 6977–6983 (2020).
- **W. Fei**, M. Driscoll, P. Chaikin, K.J.M. Bishop, Magneto-capillary dynamics of amphiphilic Janus particles at curved liquid interfaces. *Soft Matter* 14, 4661–4665 (2018). **Cover Article**
- **W. Fei**, Y. Gu, K.J.M. Bishop, Active colloidal particles at fluid interfaces. *Curr. Opin. Colloid In. Sci.* 32, 57-68 (2017).
- Y. Dou, C.A. Cartier, **W. Fei**, S. Pandey, S. Razavi, I. Kretzschmar, K.J.M. Bishop, Directed motion of metallodielectric particles by contact charge electrophoresis. *Langmuir* 32, 13167–13173 (2016).

Patents

- Li, H.; Kupas, J. M.; Kash, M. M.; **Fei, W.**; Tong, M.A. Systems and methods for identifying a paint and applicator combination. US20240346564A1, 2024.

Awards

Texas Tech University Research Assistance Program, FY24 & FY25	2023 - 2025
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