

## Jiaxin (Dawn) Duan

ORCID: <https://orcid.org/0000-0003-3252-7870>

Email: [v7c3m1@u.northwestern.edu](mailto:v7c3m1@u.northwestern.edu)

### EDUCATION

Present –	<b><u>Northwestern University</u></b>
2018 Summer	Ph. D. Candidate in Chemistry (Weinberg College of Arts & Sciences)
2018 Spring–	<b><u>University of Minnesota – Twin Cities</u></b>
2014 Fall	B. S. Chemistry (College of Science and Engineering) Minor in Mathematics (College of Liberal Arts)

### PUBLICATIONS

1. Wang, R.; Bukowski, B.; **Duan, J.**; Sui, J.; Snurr, R.; Hupp, J. T. *Chem. Mater.*, **2021**, *33*, 6832–6840.
2. Li, X.; Yu, J.; Lu, Z.; **Duan, J.**; Fry, H.; Gosztola, D.; Maindan, K.; Rajasree, S.; Deria, P. *J. Am. Chem. Soc.*, **2021**, *143*, 15286–15297.
3. Lu, Z.; Wang, R.; Liao, Y.; Farha, O. K.; Bi, W.; Sheridan, T. R.; Zhang, K.; **Duan, J.**; Liu, J.; Hupp, J. T. *Chem. Comm.*, **2021**, Accepted.
4. Ray, D.; Goswami, S.; **Duan, J.**; Hupp, J. T.; Cramer, C.; Gagliardi, L. *Chem. Mater.*, **2021**, ASAP. DOI: 10.1021/acs.chemmater.0c03855
5. Nagatomi, H.; Gallington, L.; Goswami, S.; **Duan, J.**; Chapman, K.; Yanai, N.; Kimizuka, N.; Farha, O. K.; Hupp, J. T. *ACS Omega*, **2020**, *5*, 30299–30305.
6. Wang, R.; Bukowski, B. C.; **Duan, J.**; Sheridan, T. R.; Atilgan, A.; Zhang, K.; Snurr, R. Q.; Hupp, J. T. *Langmuir*, **2020**, *36*, 10853–10859.
7. Kung, C.-W.; Goswami, S.; Hod, I.; Wang, T. C.; **Duan, J.**; Farha, O. K.; Hupp, J. T. *Acc. Chem. Res.* **2020**, *53*, 1187–1195.
8. Goswami, S.; Hod, I.; **Duan, J.**; Kung, C.-W.; Rimoldi, M.; Malliakas, C. D.; Palmer, R. H.; Farha, O. K.; Hupp, J. T. *J. Am. Chem. Soc.* **2019**, *141*, 17696–17702.
9. Desai, S. P.; Ye, J.; Zheng, J.; Ferrandon, M. S.; Webber, T. E.; Platero-Prats, A. E.; **Duan, J.**; Garcia-Holley, P.; Camaioni, D. M.; Chapman, K. W.; Delferro, M.; Farha, O. K.; Fulton, J. L.; Gagliardi, L.; Lercher, J. A.; Penn, R. L.; Stein, A.; Lu, C. C. *J. Am. Chem. Soc.* **2018**, *140*, 15309–15318.
10. Malonzo, C. D.; Wang, Z.; **Duan, J.**; Zhao, W.; Webber, T. E.; Li, Z.; Kim, I. S.; Kumar, A.; Bhan, A.; Platero-Prats, A. E.; Chapman, K. W.; Farha, O. K.; Hupp, J. T.; Martinson, A. B. F.; Penn, R. L.; Stein, A. *Inorg. Chem.* **2018**, *57*, 2782–2790.
11. Desai, S. P.; Malonzo, C. D.; Webber, T. E.; **Duan, J.**; Thompson, A. B.; Tereniak, S. J.; DeStefano, M. R.; Buru, C. T.; Li, Z.; Penn, R. L.; Farha, O. K.; Hupp, J. T.; Stein, A.; Lu, C. C. *Farad. Discuss.* **2017**, *201*, 287–302.

### MANUSCRIPTS IN PREPERATION

1. **Duan, J.**; Goswami, S.; Patwardhan, S.; Hupp, J. T. **2021**. Submitted to *J. Phys. Chem. C*

### RESEARCH EXPERIENCE

Present –	<b><u>Graduate Research Assistant, Hupp Group</u></b>
2018 Summer	<b>Department of Chemistry, Northwestern University</b> <ul style="list-style-type: none"><li>• Investigated host–guest interactions within metal–organic frameworks using electrochemical methods</li><li>• Collected and solved structural information on various materials for the group</li><li>• Communicated results through reports and presentations at debriefing and conferences</li></ul>
2018 Spring –	<b><u>Undergraduate Researcher, Stein Group</u></b>
2015 Fall	<b>Department of Chemistry, University of Minnesota – Twin Cities</b> <ul style="list-style-type: none"><li>• Synthesized, modified and characterized metal-organic frameworks and their derivatives</li><li>• Presented at various research debriefing and conferences</li></ul>

### TEACHING/WORKING EXPERIENCE

2020 Spring–	<b><u>Northwestern University, Laboratory Assistant</u></b>
2019 Fall	Northwestern University Micro/Nano Fabrication Facility
	<b><u>Northwestern University, Teaching Assistant</u></b>
2021 Spring	Organic Chemistry (SPS), CHEM 230

2021 Winter	Advanced Physical and Analytical Chemistry, CHEM 435/445
2020 Fall	Accelerated General Chemistry, CHEM 151
2020 Winter	Advanced Laboratory 2, CHEM 350
2019 Summer	General Inorganic Chemistry Lab, CHEM 142
2019 Winter	Advanced General Chemistry Laboratory 2, CHEM 182
2019 Winter	Advanced Laboratory 2, CHEM 350
2018 Fall	Advanced General Chemistry Laboratory 1, CHEM 181
	<b><u>University of Minnesota – Twin Cities, Teaching Assistant</u></b>
2018 Spring	General Chemistry Laboratory, CHEM 1065
2017 Fall	General Chemistry Laboratory for students on honor track, CHEM 1075H
2017 Summer	Advanced Inorganic Chemistry Laboratory, CHEM 4711W
2017 Spring	General Chemistry Laboratory, CHEM 1066
2016 Fall	General Chemistry Laboratory, CHEM 1065
2016 Spring	General Chemistry (Discussion group), CHEM 1062
2015 Fall	General Chemistry (Discussion group), CHEM 1061

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### **HONORS & REWARDS**

2018 Spring– 2014 Fall	Dean's List, University of Minnesota
2018 Spring	Travel grant for American Chemical Society 255 <sup>th</sup> National Meeting (\$250)
2018 Spring– 2017 Fall	Dr. Paul F. and Patricia Guehler Chemistry Scholarship (\$5000)
2017 Fall	J. Lewis Maynard Memorial Prize in Advanced Inorganic Chemistry (\$100)
2017 Spring – 2016 Fall	Thomas DuBruil Undergraduate Research Award (\$3000)
2017 Spring – 2016 Fall	Undergraduate Research Opportunities Program (\$1500)
2015 Fall	McGraw Hill's Book Prize for Student Achievement in Introductory Chemistry (A book)

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### **PROFESSIONAL DEVELOPMENT**

2021 Oct - Nov	4th US School on Total Scattering Analysis (PDFGui, RMCProfile, DISCUS)
2021 July	23rd National School on Neutron and X-Ray Scattering (NXS2021)
2021 June	Telluride School on Fundamentals for Electrochemical Energy Conversion and Storage
2020 Dec	Rigaku School for Advanced Topics in Practical Crystallography (pass the test with honors)
2019 Fall	Certificate of Completion: Advanced Impedance Spectroscopy

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### **PRESENTER**

2021 Winter	239th ECS Meeting with the 18th International Meeting on Chemical Sensors (Poster)
2019 Fall	Nanoporous Materials Genome Center (NMGC) All-Hands Meeting (Poster)
2018 Spring	American Chemical Society 255 <sup>th</sup> National Meeting (Poster)

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### **ATTENDEE**

2019 Fall	Electrochemical Society 236 <sup>th</sup> Meeting (Short Course)
2019 Spring	Catalysis Club of Chicago Symposium
2017 Fall	Inorganometallic Catalyst Design Center (ICDC) All-Hands Meeting
2017 Spring	IPRIME Annual Meeting

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### **SERVICES & OUTREACHES**

Present – 2021	Volunteer, Letters to a Pre-Scientist program
Present – 2020	Volunteer, Books & Breakfast (Tutor for middle schoolers)
2021 – 2020	Volunteer, Expand Your Horizons Chicago (Social media assistant)
Present – 2020	<b><u>Phi Lambda Upsilon (Northwestern's Chemistry Honor Society)</u></b>
2022 – 2021	Co-presidents
2021 – 2020	Secretary and webmaster ( <a href="http://nuplu.weebly.com/">http://nuplu.weebly.com/</a> )
Present – 2020	<b><u>Northwestern Energy and Technology Group</u></b>
	Advertisement chair and webmaster ( <a href="https://sites.northwestern.edu/netg0/">https://sites.northwestern.edu/netg0/</a> )
2022 – 2021	External Vice President
2021 – 2020	Webmaster
2020 – 2019	General Board Member

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2019 Spring	Volunteer, ACS the Great Lake Regional Meeting (Session Presider)
2016 Spring –	Volunteer, Minnesota Science Museum (Activity Leader)
2014 Fall	