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### Education

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#### ***Bachelor of Science in Chemistry, Temple University, 2019***

University Honors Program | Cumulative GPA **3.78**  
Presidential Scholarship at Temple University

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### Lab Skills

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- Pharmaceutical hands-on GMP laboratory experience with HPLC, Spectrophotometer, Particle Sizer, Karl Fisher Titration, Viscometer
- Research laboratory experience with AFM, Raman Spectroscopy, SHG, TEM, SEM
- Coursework laboratories in NMR, LC-MS, GC-MS, ICP-OES, CV, GPC, TGA, DSC

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### Employment History

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#### **Chemist, Frontage Laboratories, August 2019 to Present**

- Perform analytical Waters UPLC and Agilent HPLC for Assay, Impurities, and Dissolution
- Determine pH, Water Content, Specific Gravity, Osmolality and other physical properties for drug products
- Cooperate with R&D on new small molecule medication
- Operational and Performance Qualification for instruments including HPLC, Dissolution Apparatus, etc.

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### Research Experience

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#### **The Sun Group – Temple University**

*Undergraduate Researcher with Dr. Yugang Sun*

Sep 2017 – Mar 2018

- Synthesis and photocatalysis of Rh-Ag mesoporous superparticles

#### **The Borguet Group – Temple University**

*Undergraduate Researcher with Dr. Eric Borguet*

Feb 2016 – Sep 2017

- Plasmonic sensing and photocatalysis by ligand-free Ag and Au Nanoparticles
- SHG study of Al<sub>2</sub>O<sub>3</sub>(0001)/H<sub>2</sub>O: pH dependence and effect of NaCl

#### **Publication**

1. Xinyan Dai, Qilin Wei, Thao Duong, Yugang Sun. "Selective Transfer Coupling of Nitrobenzene to Azoxybenzene on Rh Nanoparticle Catalyst Promoted by Photoexcited Hot Electrons." *ChemNanoMat*, 2019, doi:10.1002/cnma.201900182.

#### **Oral Presentation**

1. **Thao Duong**, Isabella Goodenough, Melissandre Richard, Stefan Piontek, Maryam Hajfathalian, Eric Menumerov, Svetlana Neretina, Eric Borguet, "Monitoring the oxidation kinetics and size evolution of sapphire-immobilized hemispherical Ag nanoparticles at aqueous interfaces," 254th ACS National Meeting & Exposition, Washington D.C., USA 2017

#### **Poster Presentation**

1. **Thao Duong**, Isabella Goodenough, Melissandre Richard, Stefan Piontek, Maryam Hajfathalian, Eric Menumerov, Svetlana Neretina, Eric Borguet, "Monitoring the oxidation kinetics and size evolution of sapphire-immobilized hemispherical Ag nanoparticles at aqueous interfaces," Temple University URP Research Symposium, Temple University PA, USA 2017

2. **Thao Duong**, Eric Borguet, "Plasmonic sensing of chemical events with metal nanoparticles," Temple University URP Research Symposium, Temple University PA, USA 2016

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### Other Skills

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- Empower, Chemstation · Origin, ChemDraw, Igor Pro
- Microsoft Office · LaTeX · Java · Adobe Illustrator, Premier Pro