

# Jack Bowman

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## EDUCATION

2019-2023      **BSc**, Honours Specialization in Chemistry, Western University  
Thesis in progress  
Supervisors: Dr. Mark S. Workentin, Dr. John F. Corrigan  
Attained Dean's Honour List each year  
Current Cumulative GPA: 3.86 (All courses), 3.90 (Chemistry only)

## HONOURS

2022      James D. McNabb Scholarship in Chemistry recipient  
2022      MITACS Globalink Research Award recipient  
2022      NSERC USRA recipient  
2022      UWO In-Course Scholarship Year IV recipient  
2021      NSERC USRA recipient  
2021      Western Global Opportunities Award recipient  
2021      Western International Learning Award recipient  
2019      Western Scholarship of Distinction recipient

## RESEARCH INTERESTS

- Development of bio-orthogonal molecules towards chemical systems with higher order functionality
- Catalysis, developing and understanding the mechanisms behind catalytic systems
- Functionalization of polymers and polymer networks

## RESEARCH EXPERIENCE

2022-2023      **Undergraduate Honours Thesis**, Western University, under joint supervision of Dr. Mark S. Workentin and Dr. John F. Corrigan. Primary research focus on development of carboxylate ligands with click chemistry functionalities towards atomically precise silver nanomaterials  
Using silver nanocluster chemistry to create functional systems

- 2022                    **MITACS Globalink Research Award Recipient**, University of Trieste, Italy, under joint supervision of Dr. Pierangelo Gobbo and Dr. Mark S. Workentin  
 Synthesized thermoresponsive polymers towards protocells: artificial systems with properties akin to biological cells  
 Synthesis of catalyst for Belousov-Zhabotinsky reaction, a non-equilibrium system with implications in protocellular research  
 Synthesis of molecules capable of click chemistry, notably strained alkynes
- 2021-2022           **Undergraduate Researcher**, Western University, under supervision of Dr. Mark S. Workentin  
 Primary research involvement included ligand development and synthesis toward novel gold and silver nanomaterials (notably nanoclusters)  
 Synthesis of strained alkynes and azides
- 2021,2022           **NSERC USRA Recipient**, Western University, under supervision of Dr. Mark S. Workentin  
 Ligand development towards functionalization of gold nanoclusters  
 Synthesis of molecules capable of click chemistry, notably strained alkynes, and functionalized azides

## CONFERENCES ATTENDED

- 2022                    Physical Organic Minisymposium (POMS), Kingston, Ontario

## NONACADEMIC WORK EXPERIENCE

- 2018-2021           Lead Host, The Keg Steakhouse & Bar, 1170 Wellington Rd, London, Ontario, N6E 1M3
- 2016-2018           Crew Member, McDonald's, 520 Oxford St. West, London, Ontario, N6H 1T5