# Patrick Devaney

⊠ patricksdevaney@gmail.com ™ patrickdevaney.net Citizenship: Canada and United Kingdom

	Research Interests		
	<ul><li>o discrete and computational geometry</li><li>o optimization</li><li>o approximation algorithms</li></ul>	<ul><li>graph theory</li><li>complexity</li></ul>	
	Education		
09/2021 - Present	<b>MSc Computer Science</b> , <i>University of Windsor</i> , Windsor, ON, <i>90.00%</i> Supervisors: Ahmad Biniaz and Prosenjit Bose		
09/2016 - 04/2021	<b>BCS(H) Computer Science</b> , <i>University of Windsor</i> , Windsor, ON, <i>92.27%</i> with Great Distinction Minor in Statistics		
09/2016 - 04/2021			
	Experience		
	Research		
09/2020 - 04/2021	<ul> <li>Research Assistant, University of Windsor, Windsor, ON</li> <li>Supervisor: Dr. Ahmad Biniaz</li> <li>Researched reducing the approximation factor in an algorithm for bounded-angle minimum spanning trees as part of research project course</li> </ul>		
01/2019 - 04/2019			
02/2018 - 07/2018	<b>Research Assistant</b> , <i>University of Windso</i> Supervisor: Dr. Sherif Saad	developing a proof-of-concept ransomware in C $\#$	
	Teaching		
09/2021 - Present	<ul> <li>Graduate Teaching Assistant, University</li> <li>Graduate teaching assistant for:</li> <li>COMP-4540 Design and Analysis of Algorith</li> <li>COMP-3670 Computer Networks (Summer 2)</li> </ul>	ums (Fall 2021, Winter 2022)	

# 05/2018 - 12/2019 **Teaching Assistant**, *University of Windsor*, Windsor, ON Teaching assistant for:

- COMP-2310 Theoretical Foundations of Computer Science (Fall 2019)
- COMP-1000 Key Concepts in Computer Science (Summer 2019)
- COMP-2097 Social Media and Mobile Technology for End Users (Summer 2018)

# **Technical Skills**

Programming Languages: Python, C++, C, Java

### Awards and Scholarships

2022 - 2023	NSERC Canada Graduate Scholarship - Master's	\$17,500
2022	Ontario Graduate Scholarship (declined)	\$15,000
2022	University of Windsor Departmental Scholarship	\$3,000
2021 - 2023	University of Windsor Master's Entrance Scholarship	\$12,500
2016 - 2020	University of Windsor Dean's Renewable Entrance Scholarship	\$10,000

# **Programming Competitions**

2017 - 2020	ACM ICPC Regional Competition	Highest-finishing University of Windsor team
2017 - 2020	ACM ICPC Local Competition	1st of 10+ local teams
2017	University of Windsor Student-Led Pr	ogramming Competition 3rd place
2016 - 2017	Computer Science Society Problem of	the Week 1st place

### Activities

#### 09/2018 - 08/2019 Undergraduate Representative, Computer Science Council, University of Windsor

- Responsible for representing undergraduate concerns to the Computer Science departmental council
- Discussed proposals for new courses and changes to existing courses as part of the undergraduate curriculum committee
- Involved in the hiring of 3 new tenure-track professors as part of the appointments committee

#### Publications

#### Conference Papers

[1] A. Biniaz, P. Bose, and P. Devaney, "A 13/9-approximation of the average- $2\pi/3$ -MST." CCCG 2022.