

# Waqas Bin Hamed

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607 - 345 King St N,  
Waterloo, ON N2J 2Z1

Email: [wbhamed@uwaterloo.ca](mailto:wbhamed@uwaterloo.ca)  
Website: [waqasbinhamed.github.io](https://waqasbinhamed.github.io)  
Phone: +1 548-994-4428

Interests	Machine Learning, Deep Learning, Nonnegative Matrix Factorization (NMF)
Education	<b>University of Waterloo</b> M.Math., Computational Mathematics, 2022 Research Project: Nonnegative Matrix Factorization with Sum-of-Norms Clustering Advisor: Dr. Hans De Sterck  <b>Middle East Technical University</b> B.Sc., Environmental Engineering, 2020 Final Year Project: Solid Waste Management Plan for Urgup, Turkey
Publication	Article Name (with Authors) <i>TBD</i> , 0, 0–100 (2023)
Teaching	<b>University of Waterloo</b> <i>Teaching Assistant – Faculty of Mathematics</i> MATH 138 (Calculus 2 for Honours Mathematics) – Winter 2022 MATH 128 (Calculus 2 for the Sciences) – Winter 2022 MATH 127 (Calculus 1 for the Sciences) – Fall 2021 MATH 117 (Calculus 1 for Engineering) – Fall 2021
Research	<b>University of Waterloo</b> , Waterloo, ON Graduate Student Researcher, <i>Sep – Dec 2022</i> Project: Nonnegative Matrix Factorization with Son-of-norms Clustering
Professional Experience	<b>Symboticware Inc.</b> , Sudbury, ON Data Scientist (Co-op), <i>May – Aug 2022</i>  <b>Big Data Analytics</b> , Lahore, Pakistan Data Scientist, <i>Jul 2020 – Aug 2021</i>  <b>Infrastructure Development Authority Punjab</b> , Lahore, Pakistan Environmental Engineering Intern, <i>Jun – Aug 2019</i>  <b>The Urban Unit</b> , Lahore, Pakistan Environmental Department Intern, <i>Jun – Aug 2018</i>
Awards	- Outstanding Teaching Assistant Award, <i>July 2022</i> - International Master's Award of Excellence (IMAE), <i>Sept 2021</i> - Ranked 2nd out of 99 fourth year students in the Environmental Engineering Department, <i>July 2020</i> - METU Dean's Honor List Recipient (50% scholarship) throughout undergraduate studies

Languages Urdu (native), English (native), French (beginner), Turkish (beginner)

Skills **Programming Languages:** Python, MATLAB, SQL,  $\text{\LaTeX}$   
**Other:** Linux, Git, Docker, Google Cloud Platform, Amazon Web Services

References Dr. Hans De Sterck Dr. Andersen Ang  
University of Waterloo University of Southampton  
hans.desterck@uwaterloo.ca andersen.ang@soton.ac.uk

TBD  
TBD  
professor@uni.edu

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