Hang Yin

Ph.D. Student in Environmental Sciences

EDUCATION

University of Guelph Guelph, ON, Canada

Doctor of Philosophy, Environmental Sciences September 2022 - present

McGill University Montréal, QC, Canada

Doctor of Philosophy, Civil Engineering September 2021 - August 2022

McGill University Montréal, QC, Canada

Master of Science, Atmospheric and Oceanic Sciences September 2019 - August 2021

McGill University Montréal, QC, Canada

Bachelor of Science, Environment - Atmospheric Environment & Air Quality September 2015 - May 2019

McGill Field Study Semester Bellairs Research Institute, Holetown, Barbados May 2018 - August 2018

Interdisciplinary Tropical Studies

SKILLS SUMMARY

Fortran, Bash • Programming • Analysis Python (NumPy, xarray, Cartopy, Matplotlib), Matlab, CDO

• Platforms Linux, MacOS, Windows

• Tools Latex, Microsoft Office, Inkscape

• Languages English (professional), Mandarin (native)

RESEARCH EXPERIENCE

Graduate Research Assistant

McGill University

September 2021 - August 2022

Email: hyin09@uoguelph.ca

Mobile: +1-514-660-3092

• Model application: The impacts of urbanization on local seasonal and extreme precipitation patterns with the Canadian Global Environmental Multiscale (GEM) model.

Graduate Research Assistant

McGill University

September 2019 - August 2021

• Model development: Thermodynamic modelling of carbonate/bicarbonate/CO₂ system and the interaction with water and organic compounds for the AIOMFAC model (http://www.aiomfac.caltech.edu/).

Research Trainee

McGill University

May 2019 - August 2019

- Model development: Thermodynamic modelling of aqueous iodate and sulfate/bisulfate systems and their interactions with organic compounds.
- Lab experiments: Water activity measurements of aqueous iodide, iodate, and bisulfate systems.

Research Assistant

McGill University

September 2018 - April 2019

- $\circ\,$ Literature review: Research of literature data on aerosol thermodynamic measurements.
- Model development: Thermodynamic modelling of aqueous iodide systems and their interactions with organic compounds.

Publication

- Yin, H., Dou, J., Klein, L., Krieger, U. K., Bain, A., Wallace, B. J., Preston, T. C., and Zuend, A.: Extension of the AIOMFAC model by iodine and carbonate species: applications for aerosol acidity and cloud droplet activation, Atmos. Chem. Phys., 22, 973-1013, https://doi.org/10.5194/acp-22-973-2022, 2022.
- Yin, H.: Modeling aerosol acidity and cloud droplet activation in marine and dust aerosols: extension of the AIOMFAC model by iodine and carbonate species, MSc thesis, McGill University, Montreal, Canada, https://escholarship.mcgill.ca/concern/theses/0z7092734, 2021.

Conference

• Yin, H., Sushama, L., and Teufel, B.: Impacts of urbanization on summer precipitation and management of engineering infrastructure systems for Montreal, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-5182, https://doi.org/10.5194/egusphere-egu22-5182, 2022.

TEACHING EXPERIENCE

Guest lecturer

University of Guelph - ENVS 2030 - Meteorology and Climatology

October 2022

Teaching Assistant

McGill University - ATOC 184 - Science of Storms

January 2021 - April 2021

Teaching Assistant

 $McGill\ University$ - $ATOC\ 185$ - $Natural\ Disasters$

 $September\ 2020$ - $December\ 2020$

AWARDS

Graduate level

Gradate level	
o International Doctoral Tuition Scholarship	September 2022 - April 2026
o The Mary Edmunds Williams Scholarship	September 2022 - December 2023
o McGill Engineering Doctoral Awards	September 2021 - April 2022
o John Bonall Porter Fellowship	September 2021 - April 2022
o Graduate Excellence Award	September 2019 - August 2021
o Meteorology Research Graduate Award	September 2019 - August 2021

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Undergraduate level	
o Science Undergraduate Research Awards	May 2019 - August 2019
o Science Lab without Borders	May 2018 - August 2018
o Mobility Undergraduate Award	May 2018 - August 2018

SERVICE

Member at McGill Peer Support Center

Helped graduate students in need of mental health support.

Montreal, Canada September 2019 - August 2021

Note Taker for Office for Students with Disabilities Took clear and accurate notes as a supplementary record to lectures.

Montreal, Canada September 2019 - December 2019

Last update: 2022-12-15