Hang Yin

Ph.D. Student in Environmental Sciences

Mobile: +1-514-660-3092

EDUCATION

University of Guelph

Doctor of Philosophy, Environmental Sciences

Montréal, QC, Canada

Email: hyin09@uoguelph.ca

Guelph, ON, Canada

September 2022 - present

McGill University
Doctor of Philosophy, Civil Engineering

September 2021 - August 2022

Doctor of I muosophy, Cron Engineering

Montréal, QC, Canada

Master of Science, Atmospheric and Oceanic Sciences

September 2019 - August 2021

McGill University

McGill University

Montréal, QC, Canada

Bachelor of Science, Environment - Atmospheric Environment & Air Quality

September 2015 - May 2019

May 2018 - August 2018

McGill Field Study Semester

Bellairs Research Institute, Holetown, Barbados

Interdisciplinary Tropical Studies

SKILLS SUMMARY

• Programming Languages Fortran, Bash

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

• Platforms Linux, MacOS, Windows

• Tools Latex, Microsoft Office, Inkscape

• Languages English, Mandarin

RESEARCH EXPERIENCE

Graduate Research Assistant

McGill University

September 2021 - August 2022

• 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

- o 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

| Graduate level | |
|--|--------------------------------|
| \circ 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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| - Meteorology Research Gradatte Hwara | september solo llagaet sesi |
|---|-----------------------------|
| Undergraduate level | |
| \circ Science Undergraduate Research Awards | May 2019 - August 2019 |
| • Science Lab without Borders | May 2018 - August 2018 |
| o Mobility Undergraduate Award | May 2018 - August 2018 |
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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