Hang Yin

https://hyin09.github.io/hangyin-main/about.html

EDUCATION

University of Guelph Doctor of Philosophy, Environmental Sciences Guelph, ON, Canada

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September 2022 - present

McGill University

Doctor of Philosophy, Civil Engineering

Montréal, QC, Canada

September 2021 - August 2022

McGill University

Master of Science, Atmospheric and Oceanic Sciences

Montréal, QC, Canada September 2019 - August 2021

McGill University

Bachelor of Science, Environment - Atmospheric Environment & Air Quality

Montréal, QC, Canada

September 2015 - May 2019

McGill Field Study Semester Interdisciplinary Tropical Studies

Bellairs Research Institute, Holetown, Barbados

May 2018 - August 2018

SKILLS SUMMARY

• Programming Fortran, Bash

• 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

• 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

Teaching Assistant

University of Guelph - ENVS 2270 -Impacts of Climate Change January 2023 - April 2023

Guest lecturer

26 October 2022 University of Guelph - ENVS 2030 - Meteorology and Climatology

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

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 September 2019 - August 2021

o Meteorology Research Graduate Award

Undergraduate level

o Science Undergraduate Research Awards May 2019 - August 2019 \circ 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.

Note Taker for Office for Students with Disabilities

Took clear and accurate notes as a supplementary record to lectures.

Montreal, Canada

September 2019 - August 2021

Montreal, Canada

September 2019 - December 2019