Maeve Wildes

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https://maevewildes.github.io

EDUCATION

University of Maryland   **College Park, MD**
Ph.D. Candidate in Applied Mathematics (expected graduation: May 2026)
- **Supervisor:** Antoine Mellet
- **Domain:** Partial differential equations
- **GPA:** 3.80/4.00

University of Maryland   **College Park, MD**
Masters of Science (M.S.) Applied Mathematics (graduated May 2024)

McGill University   **Montreal, QC**
Bachelor of Science (B.S.) Honours Mathematics, Minor Computer Science (graduated May 2021)
- **GPA:** 3.90/4.00
- Graduated with First Class Honours with Distinction

PUBLICATIONS AND PREPRINTS

- Mellet, A., Wildes, M. *Traveling wave solutions of age-structured tumor models.* In preparation (2025).
- Wildes, M. *Incompressible limit for an age-structured tumor model.* In preparation, preprint available upon request (2025).
- Levy, D., Lim, H., Mellet, A., Wildes, M. *Age-structured mechanical models for tumor growth.* Submitted to Journal of Mathematical Biology (2025). https://www.math.umd.edu/~mellet/publi/tumor.pdf
- Barill, G., Lin, J., Wildes, M. *Convergence of finite difference schemes for lower semicontinuous viscosity solutions and applications to discrete random processes.* Nonlinear Differential Equations and Applications, **32** (2025), no. 107, https://doi.org/10.1007/s00030-025-01095-x
- Fatmi, S.Z., Chen, X., Dhamija, Y., Wildes, M., Tang, Q., van Breugel, F. *Probabilistic Model Checking of Randomized Java Code.* Model Checking Software: 27th International Symposium, SPIN 2021, Proceedings, (2021), 157–174, https://doi.org/10.1007/978-3-030-84629-9_9

TEACHING EXPERIENCE

University of Maryland   **College Park, MD**
Grader
- DATA 601: Probability and Statistics (Fall 2025)
- MATH 463: Complex Analysis (Spring 2025)
- STAT 701: Mathematical Statistics (Spring 2025)

Teaching Assistant
- MATH 113: College Algebra (Fall 2024)
- MATH 120: Elementary Calculus (Fall 2021, Fall 2023)
- DATA 601: Probability and Statistics (Fall 2023)
- STAT 400: Applied Probability and Statistics I (Spr 2022, Spr 2023)
- STAT 401: Applied Probability and Statistics II (Fall 2022)

University of Maryland   **College Park, MD**
Instructor
- MATH 120: Elementary Calculus (Summer 2022)

McGill University   **Montreal, QC**
Grader
- MATH 475: Honours Partial Differential Equations (Fall 2020)

MENTORSHIP
- Girls Talk Math Summer Camp, co-director (July 2024-present)
- UMD Directed reading program, mentor (Jan 2025-present)
- AMSC Mentor for first year graduate students (Aug 2024-present)
- UMD AWM student chapter, co-president (Aug 2023-May 2025); treasurer (Aug 2022-Aug 2023)

SCHOLARSHIPS AND AWARDS
- Ruth Davis Fellowship for Mathematics and Physics (Aug 2021-present)
- Hauptman Summer Research Fellowship (May 2024-Aug 2024)
- Dean's Fellowship **(**Aug 2021-Aug 2023)
- NSERC Undergraduate Student Research Award (May 2020-Aug 2020)
- Tomlinson Engagement Award for Mentorship (Sept 2019-Apr 2020)

CONFERENCES ATTENDED
- Free Boundary Problems: Lecture Series and Recent Advances in Theory and Applications, Columbia University, May 2023
- Lassonde Undergraduate Research Conference, York University, August 2019

SKILLS
- **Programming:** Python, Matlab, C, R, Java