Dr Ted J Scott

PhD Student
University of British Columbia, Vancouver
Geography

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An interdisciplinary climate data scientist working at the interface of physical science and policy

Research interests and skills

Seasonal Changes	Energy Systems	Python, R
Urban Climate	Climate Policy and Intl Affairs	Communication

Education

PhD, Geography — Expected 2027
University of British Columbia
Vancouver, BC, Canada
Advisors: Simon D Donner, Rachel H White

PhD, Geophysics — 2006
University of Minnesota
Minneapolis, USA
Advisor: David L Kohlstedt

MSc, Geophysics — 2000
University of Minnesota
Minneapolis, USA
Advisor: David L Kohlstedt

BSc Computer Science, Minors: Physics, Anthropology — 1997
University of Minnesota
Minneapolis, USA

Research Experience

Graduate Research Assistant, University of British Columbia, Geography — 2023 -
- Impact of warming climate on seasonal patterns, especially urban heat and energy needs

UBC Climate Solutions Scholar — 2025 - 2026
- Co-Developed an open-source tool for determining the energy and associated carbon emissions of cloud-based microservices

Graduate Research Assistant, University of Minnesota, Earth & Env. Science — 2003 - 2006
- Experimental petrology: characterization of the flow of mantle rocks in Earth and Io near the rheologically-critical melt fraction
- Lattice-Boltzmann determination of permeability of basalt in peridotite — 1997-2000

Publications

Scott T.J., White R.H., and Donner S.D. Summers over land and ocean are becoming longer, transitioning faster, and accumulating more heat. *Environ. Res. Lett.* (2026)
https://doi.org/10.1088/1748-9326/ae5724

Hustoft J., **Scott T.**, and Kohlstedt D. L. The Effect of Melt Content and Wetting Behavior on the Viscosity of Partially Molten Peridotite, Earth Planet. Sci. Lett. 260, 355–360, https://doi.org/10.1016/j.epsl.2007.06.011 (2007)

Scott T. and Kohlstedt D.L. The Effect of Large Melt Fraction on the Deformation Behavior of Peridotite, Earth Planet. Sci. Lett., 246, 177-187, https://doi.org/10.1016/j.epsl.2006.04.027 (2006)

Selected Presentations

Scott T.J., White R.H., and Donner S.D. (2026) Summers over land and ocean are becoming longer, transitioning faster, and accumulating more heat. CMOS Congress. Abs #12648 (*Talk*)

Scott T.J., White R.H., Donner S.D. (2024), A global analysis of the changing summer season length under global warming: land, ocean, and coasts, Graduate Climate Conference, Washington, USA. (*Talk*)

Courtier A. and **Scott T.J.** (2009), Evaluating Scientific Misconceptions and Scientific Literacy in a General Science Course, Eos Transactions of the American Geophysical Union, Fall Meeting 2009, ED23A-0521. (*Poster*)

Scott T. and Kohlstedt D.L. (2004), The Effect of Large Melt Fraction on the Deformation Behavior of Peridotite: Implications for the Viscosity of Io's Mantle and the Rheologically Critical Melt Fraction, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract T13D-02. (*Talk*)

Professional Experience

Science and Math Teacher, Eastside Preparatory School, Kirkland, WA, USA 2017 - 2023
- Taught primarily 11th & 12th grade students. Physics, Data Science 1* and 2*, Geoscience*, Astronomy*, Algebra 2, Pre-calculus, Calculus. (*courses I proposed and developed)

Microsoft Corporation, Redmond, WA, USA
- Data Scientist 2 2014 - 2017
- Software Development Engineer 2, SDE 2 in Test 2006 - 2014
- Program Manager 2 2000 - 2003

University Teaching and Mentorship Experience

CARE Sustainability in a Changing Climate Case Competition - Coach 2025
- Coached team of Public Policy Master's students in an international sustainability policy competition

Instructor, University of Minnesota, Earth & Env. Science 2003
- Jupiter's Moon Io - from the surface to the core. One-term topical seminar.

Graduate Teaching Assistant, University of Minnesota, Earth & Env. Science
- Mineral and Rock Physics - tutorial instructor and grader 2005
- Geodynamics II: The Fluid Earth - lab and tutorial instructor, grader 2003
- Introduction to Geology - lab instructor and grader 1998

Public Scholarship and Community Involvement

Whatcom County Climate Impact Advisory Committee 2024 -

- Appointed by council - advise the Washington State Whatcom County Council on climate-related topics and help author the Comprehensive Plan and Climate Action Plan

Honours and Awards

UBC Climate Collective Solutions Scholar, University of British Columbia 2025 - 2026

4YF Four Year Doctoral Fellowship, University of British Columbia 2023 - 2027

President's Academic Excellence Initiative PhD Award, University of British Columbia 2023 - 2027

Harold Mooney Graduate Fellowship, University of Minnesota, Earth & Env. Sci 2005 - 2006

Richard C Dennis Graduate Fellowship, University of Minnesota, Earth & Env. Sci 2005 - 2006

V. Rama Murthy & Janice Noruk Grad Fellowship, University of Minnesota, Earth & Env. Sci 2004 - 2005

Service

Hiring Committee, University of British Columbia, Geography 2025

- Graduate representative - successful faculty search for Canada Research Chair

Hiring Committee, University of British Columbia, Geography 2024

- Graduate representative - successfully hired two assistant professors

Memberships

American Geophysical Union, European Geosciences Union, Canadian Meteorological and Oceanographic Society, American Meteorological Society