

Dr. Ted Scott

1814 J Street
Bellingham, WA 98225

<https://orcid.org/0000-0002-3053-4746>
<https://github.com/tedscott>

425-698-7301
tedjs@student.ubc.ca

Research Interest

I seek to understand the global evolution and distribution of seasonal heat and heat wave events with an emphasis on coastal urban areas. I engage in research using the tools of meteorology, data science, and climate modeling to understand the primary factors that affect the severity and duration of heat events and how those factors are experienced and perceived by humanity and impact ecosystems

Teaching Experience

University: Introductory Geology, Geophysics, and Physics courses, Earth Materials, Mathematics in the Geosciences

Secondary: Physics, Data Science, Geoscience, Astronomy, Algebra 2, Pre-calculus

Education

University of British Columbia
PhD Geography (expected June 2027)
Supervisors: Simon Donner, Rachel White

University of Minnesota, Minneapolis
PhD Geophysics (2006)
MS Geophysics (2000)
BS Computer Science (1997), Minors in Physics, Anthropology

Honors and Awards

2023-2027 4YF Four Year Doctoral Fellowship, UBC
2023-2027 President's Academic Excellence Initiative PhD Award

2005-2006 Harold Mooney Graduate Fellowship
2005-2006 Richard C. Dennis Graduate Fellowship
2004-2005 V. Rama Murthy & Janice Noruk Graduate Fellowship
1995-1997 (3) Undergrad Research Opportunities Project Grants
1995 Undergraduate Institute in Applied Science, LLNL, CA, USA

Professional Memberships

American Geophysical Union, American Meteorological Society

Dr. Ted Scott

1814 J Street
Bellingham, WA 98225

<https://orcid.org/0000-0002-3053-4746>
<https://github.com/tedscott>

425-698-7301
tedjs@student.ubc.ca

Academic Employment

University of British Columbia, Vancouver
Dept. of Geography
Graduate RA (2023-)
Advisors: Simon Donner (Geog) and Rachel White (Atmo)
Comparison of seasonal length and summer heat characteristics and their evolution under global warming for land, oceans, and coastal margins

University of Minnesota, Minneapolis
Dept. of Geology and Geophysics
Graduate RA (1997-2000, 2003-2006)
Advisor: David L. Kohlstedt
Laboratory measurements of the physical properties and dynamics of earth materials at the nano- and micro-scale to explain macro-scale phenomenon in planetary interiors
Instructor (2003)
Jupiter's moon Io - from the surface to the core
Graduate TA (Fall 1998, Fall 2003, Spring 2005)
Introduction to Geology, Geodynamics II: The Fluid Earth, Mineral and Rock Physics

Other Employment

Eastside Preparatory School, Kirkland, WA
Science and Math Teacher (2017-2023)
Teaching: 11th and 12th grade students: *Physics, Data Science, Geoscience, Astronomy, Algebra 2, Pre-calculus*
Coaching: *Cross-country running, Track & Field, Academic advisor to ~12 juniors & seniors each year*

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

Publications

T Scott, RH White, SD Donner, A global analysis of the changing summer season length under global warming: land, ocean, and coasts (in prep)

T Scott and D L Kohlstedt (2006), 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>

Dr. Ted Scott

1814 J Street
Bellingham, WA 98225

<https://orcid.org/0000-0002-3053-4746>
<https://github.com/tedscott>

425-698-7301
tedjs@student.ubc.ca

J Hustoft, **T Scott**, and D L Kohlstedt (2007), 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>

Ph.D. Thesis: A Determination of the Viscosity of Partially Molten Peridotite at Melt Fractions up to the RCMF and the Effect of Incompatible Elements in Olivines on the Rates of Cation Diffusion

M.S. Thesis: Lattice-Boltzmann Calculation of the Permeability of MORB in Sheared Peridotite

Selected Abstracts and Presentations

T Scott, RH White, SD Donner (2024), A global analysis of the changing summer season length under global warming: land, ocean, and coasts, Graduate Climate Conference 2024

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

D L Kohlstedt, A M Dillman, and **T J Scott** (2007), Grain-Grain Interfaces in Diffusion and Deformation, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract MR33A-01

T Scott, D L Kohlstedt (2005), The Effect of Large Melt Fraction on the Deformation Behavior of Peridotite, *2005 VLab Workshop*, Minnesota Supercomputer Institute, Minneapolis, MN

T Scott and D L Kohlstedt (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

T Scott and D L Kohlstedt (2004), The Effect of Large Melt Fraction on the Deformation Behavior of Peridotite: Implications for the Rheology of Io's Mantle. *Lunar & Planetary Science XXXV*, #1304