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 changing seasonal patterns in a warming climate. I emphasize the impact on coastal urban areas and aim to communicate my results with relevant policy makers. I engage in research using the tools of meteorology, data science using python and R, and climate modeling to understand and communicate how these changes 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, Calculus

Education

University of British Columbia
PhD Geography (expected Summer 2027)
Supervisors: Simon Donner, Rachel White
Coursework: Data Science for Earth Sciences, Soil Processes, Micrometeorology, Climate Policy, Climate Communication & Engagement

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

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Academic Employment

University of British Columbia, Vancouver
Dept. of Geography
Graduate RA (2023-)
Advisors: Simon Donner (Geog) and Rachel White (Atmo)
Analysis of climate data to measure summer season 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 Roles

Whatcom County Climate Impact Advisory Committee
Appointed member (2024 -)
We advise the Washington State Whatcom County Council on climate-related topics and help develop the Comprehensive Plan and Climate Action Plan

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, 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)

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Publications

T Scott, RH White, SD Donner, Evolution of the summer season over land and ocean in the midlatitudes: 1961-2023 (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

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 (Washington, USA)

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