

Tiegan E. Hobbs

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Education

PhD Geophysics (2014 – 2019)

School of Earth & Atmospheric Sciences, Georgia Institute of Technology

Thesis: *Using Dense Geodetic and Seismic Instrumentation to Characterize Postseismic Behavior of the Nicoya Megathrust* (Andrew Newman)

MSCE Geotechnical Engineering (2017 – 2019)

School of Civil & Environmental Engineering, Georgia Institute of Technology

MSc Geophysics (2012 – 2014)

School of Earth & Ocean Sciences, University of Victoria

Thesis: *Insights from the Mw 7.8 Haida Gwaii Earthquake: Static Stress Modelling and Empirical Green's Function Analysis* (John Cassidy and Stan Dosso)

BSc Geology (2008 – 2012)

Department of Earth & Planetary Science, McGill University

Honours Thesis: *Seismic Anisotropy in Southern Quebec using SkS Splitting* (Fiona Darbyshire)

Work Experience

Adjunct Professor *July 2020 – present*

University of British Columbia, Vancouver, BC

Department of Earth, Ocean, and Atmospheric Sciences

Full Time

Seismic Risk Scientist *May 2020 – present*

Postdoctoral Researcher *June 2019 – April 2020*

Geological Survey of Canada, Vancouver, BC

Public Safety Geosciences Program

Full Time

Consultant & Field Party Leader *May 2019 – present*

Europa Seismic Package Science Development Team (NASA ICEE-2)

Washington Glacier Deployment

Part-time

Freelance Science Writer *January 2018 – present*

Temblor, Inc., Redwood City, CA, USA

Earthquake News

Part Time

Teaching Assistant *January 2015 – April 2019*

Georgia Institute of Technology, Atlanta, GA, USA

Earth & Atmospheric Sciences Department

Part Time

Field Technician *August 2018 – December 2018*

Georgia Institute of Technology, Atlanta, GA, USA

RISEUP Field Work in Antarctica (NASA PSTAR)

Full Time

Outreach Instructor *September 2015 – April 2017*

Georgia Institute of Technology, Atlanta, GA, USA

'Kids Interested in Discovering Science' Club

Part Time

Work Experience Continued

Teaching Assistant *September 2012 – May 2014*

University of Victoria, Victoria, BC, Canada
School of Earth & Ocean Sciences
Part Time

Research Assistant *May 2012 – September 2012*

University of British Columbia, Vancouver, BC, Canada
Department of Civil Engineering
Full Time

Geological Assistant *May 2011 – August 2011*

Osisko Gold Royalties Ltd., Montréal, PQ, Canada
Hammond Reef Development
Full Time

Research Assistant, *May 2010 – September 2010*

L'Université du Québec à Montréal, Montréal, PQ, Canada
Département des sciences de la Terre et de l'atmosphère
Full Time

Published Work

Hobbs, T.E., Journeay, J.M., Rotheram-Clarke, D. (2020), *An Earthquake Scenario Catalogue for Canada, Part 1: A Guide to Using Scenario Results*. Geological Survey of Canada, Open File #, # pages, DOI. *Submitted*.

Hobbs, T.E., Newman, A.V., Protti, M. (2019), *Enigmatic Upper-Plate Sliver Transport Paused by Megathrust Earthquake and Afterslip*. *Earth and Planetary Science Letters*, PII:S0012-821X(19)30285-7.

Hobbs, T.E., Kyriakopoulos, C., Newman, A.V., Protti, M., Yao, D. (2017), *Large and Primarily Updip Afterslip following the 2012 Mw 7.6 Nicoya, Costa Rica earthquake*. *Journal of Geophysical Research: Solid Earth*, 122, doi:10.1002/2017JB014035.

Yao, D., Walter, J.I., Meng, X., **Hobbs, T.E.**, Peng, Z., Newman, A.V., Schwartz, S.Y., Protti, M. (2017), *Detailed Spatio-Temporal Evolution of Microseismicity and Repeating Earthquakes following the 2012 Mw7.6 Nicoya Earthquake*. *Journal of Geophysical Research: Solid Earth*, doi:10.1002/2016JB013632.

Bird, A.L., Cassidy, J.F., Kao, H., Leonard, L.J., Allen, T.I., Nikolaishen, L., Dragert, H., **Hobbs, T.E.**, Farahbod, A.M., Bednarski, J.M., James, T.S., Lamontagne, M., Shan, S., Hyndman, R., Fine, I.V., Cherniawsky, J.Y., Brillon, C., Wang, K., and Rogers, G.C., (2016), *The October 2012 magnitude (MW) 7.8 earthquake offshore Haida Gwaii, Canada*. *Summary of the Bulletin of the International Seismological Centre*, **49**, 7-12.

Darbyshire, F.A, Bastow, I.D., Forte, A.M., **Hobbs, T.E.**, Calvel, A., Gonzalez-Monteza, A., Schow, B. (2015), *Variability and Origin of Seismic Anisotropy Across Eastern Canada: Evidence from Shear-wave Splitting Measurements*. *Journal of Geophysical Research: Solid Earth*, **120**, 8404–8421, doi:10.1002/2015JB012228.

Hobbs, T.E., Cassidy, J.F., Dosso, S.E., and Brillon, C. (2015), *Coulomb Stress Changes Following the Mw 7.8 2012 Haida Gwaii, Canada Earthquake: Implications for Seismic Hazard*. *Bulletin of the Seismological Society of America*, **105**, 2B. doi: 10.1785/0120140158.

Hobbs, T.E., Cassidy, J.F., and Dosso, S.E. (2015), *Rupture Process of the Mw 7.8 2012 Haida Gwaii Earthquake from an Empirical Green's Function Method*. *Bulletin of the Seismological Society of America*, **105**, 2B. doi: 10.1785/0120140175.

Hobbs, T.E. and Darbyshire, F.A (2012), *Point Estimates of Crustal Thickness Using Receiver Function Stacking*. *McGill Science Undergraduate Research Journal*, **7**, p. 19–25.

Work In Preparation

Hobbs, T.E., Yao, D., Newman, A.V., Peng, Z., Protti, M. (2021), *Investigating Apparent Anticorrelation of Repeating Aftershocks and Afterslip in Nicoya, Costa Rica*. *Journal of Geophysical Research* — In Prep.

Hobbs, T.E., Frost, J.D., Sadegh, M. (2021), *Multivariate Analysis of Landslide Triggers Along the Big Sur Coastline, California*. *Geophysical Research Letters* — In Prep.

Hobbs, T.E., Journeay, J.M., Rao, A. (2021), *Validating Scenario Performance in the National Canadian Seismic Risk Assessment*. *Earthquake Spectra* — In Prep.

Hobbs, T.E., Journeay, J.M., Rotheram-Clarke, D. (2020), *An Earthquake Scenario Catalogue for Canada, Part 1: A Technical Guide to Running Scenario Analyses*. Geological Survey of Canada, Open File #, # pages, DOI — In Prep.

Conference Proceedings

Hobbs, T.E., Journeay, J.M., Yip, J.Z.K., Rao, A. *Benchmarking Scenario Performance in the First Generation Canadian Seismic Risk Assessment*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2020. *Poster Presentation*.

Hobbs, T.E., Kaya, Y., Journeay, J.M., Singh, G., Bird, A.L., Cassidy, J.F., van Ulden, J., and Rotheram-Clarke, D. *Improving Situational Awareness During Early Earthquake Response Using Existing Seismic Risk Models to Rapidly Estimate Damage*. American Geophysical Union, San Francisco, CA, USA, 2020. *Poster Presentation*.

Pol, K., Journeay, J.M., and **Hobbs, T.E.** *Mainstreaming Seismic Resilience: Transforming Earthquake Risk Information into Plans for Resilient Communities*. Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.

Hobbs, T.E., Journeay, J.M., and Singh, G. *Test Driving a Rapid Disaster Modelling Methodology for British Columbia Earthquakes*. Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.

Journeay, J.M., Yip, J.Z.K., **Hobbs, T.E.**, Safaie, S., Bristow, D., Deelstra, A., and Chouinard, D. *Black Swans Over Vancouver: From Understanding Risk to Identifying Interventions and Related Risk Reduction Targets*. Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.

Hobbs, T.E., Kaya, Y., Journeay, J.M., Singh, G., Bird, A.L., Cassidy, J.F., van Ulden, J. and Rotheram-Clarke, D. *Developing a Rapid Disaster Modelling Methodology for Earthquakes in British Columbia*. Natural Hazards Center Workshop, Boulder, CO, USA, 2020. *Poster Presentation*.

Hobbs, T.E., Hughson, K.H.G., Quartini, E.S., Schmidt, B.E., Panning, M.P., Washam, P.M., Dichek, D.J.G., Hurwitz, B.C., Lawrence, J.D., Hulbe, C.L., Horgan, H.J. *Today Antarctica, Tomorrow Europa: Testing Broadband Seismometers in Icy Earthly Analogs*. Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Oral Presentation*. *Cancelled for COVID19.

Hobbs, T.E., Journeay, J.M., Rao, A. *Benchmarking the First Generation Canadian National Seismic Risk Assessment*. Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Oral Presentation*. *Cancelled for COVID19.

Bombardier, M., **Hobbs, T.E.**, Cassidy, J.F., Kao, H., Dosso, S.E. *Analysis of the Atypical 2018 and 2019 Episodic Tremor and Slip Events in Northern Cascadia*. Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Poster Presentation*. *Cancelled for COVID19.

Hobbs, T.E., Journeay, J.M., Bird, A.L. *Assessing and Communicating Risk from Low-Activity Faults in British Columbia, Canada*. SAGE GAGE Workshop, Portland, OR, USA, 2019. *Poster Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Unexpected forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust*. Megathrust Modeling Workshop (Modeling Collaboratory for Subduction Research Coordination Network), Eugene, OR, USA, 2019. *Poster Presentation*.

Conference Proceedings Continued

Lawrence, J.D., Schmidt, B.E., Glass, J.B., Hamerton, E.K., Bowman, J.S., Lawrence, J.P., Meister, M.R., Dichek, D., Ramey, C., Mullen, A.D., Bryson, F.E., Hurwitz, B., Spears, A., **Hobbs, T.E.** *Water Circulation and Microbial Diversity in Antarctic Ocean World Analog Environments*. AGU Astrobiology Science Conference, Seattle, WA, USA, 2019. *Oral Presentation*.

Mullen, A.D., Schmidt, B.E., Dichek, D., Lawrence, J., Meister, M.R., Ramey, C., Bryson, F.E., **Hobbs, T.E.**, Spears, A., Hurwitz, B., Serabyn, E., Bedrossian, M., Rider, S., Wallace, J.K., Nadeau, J.L., Lindensmith, C.A. *Digital Holographic Microscopy for the Icefin Underwater Vehicle: Initial Progress and Future Steps*. AGU Astrobiology Science Conference, Seattle, WA, USA, 2019. *Oral Presentation*.

Lawrence, J.D., Schmidt, B.E., Meister, M.R., Dichek, D.J.G., Ramey, C.D., Hurwitz, B., Spears, A.M., Mullen, A.D., Bryson, F.E., Buffo, J.J., Glass, J.B., Stockton, A.M., **Hobbs, T.E.** *Observations of Variable Basal Ice Morphology in Antarctica*. Ocean Worlds, Columbia, Maryland, 2019. LPI Contribution No. 2168, i.d. 6029. *Oral Presentation*.

Newman, A.V., **Hobbs, T.E.**, Kyriakopoulos, C., Protti, M., Dixon, T., Schwartz, S.Y. *Translating megathrust behavior into the Nicoya Crust, revealing a dynamic dance across the seismic cycle*. Annual Meeting of the Seismological Society of America, Seattle, WA, USA, 2019. *Oral Presentation*.

Schmidt, B.E., Lawrence, J., Meister, M., Dichek, D., Ramey, C., Spears, A., Mullen, A., Bryson, F., **Hobbs, T.E.** *In Situ Observations of the Erebus Glacier Tongue Grounding Zone by the Icefin HROV*. European Geophysical Union General Assembly, Vienna, Austria, 2019. *Oral Presentation*.

Hobbs, T.E., Yao, D., Newman, A.V., Peng, Z., Protti, M. *Investigating Apparent Anticorrelation of Repeating Aftershocks and Afterslip in Nicoya, Costa Rica*. American Geophysical Union Fall Meeting, Washington, DC, USA, 2018. ID: T52B-03. *Oral Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Transient Forearc Sliver Transport Found During Postseismic Recovery*. Wegener 2018: 19th General Assembly of WEGENER, Grenoble, France, 2018. *Oral Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Episodic forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust: an unexpected observation*. Joint Meeting of the Latin American and Caribbean Seismological Commission and the Seismological Society of America, Miami, FL, USA, 2018. *Invited Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Unexpected forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust*. UNAVCO Science Workshop, Boulder, CO, USA, 2018. *Poster Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Accelerated sliver transport during transition from postseismic to inter-seismic conditions*. American Geophysical Union Fall Meeting, New Orleans, LA, USA, 2017. ID: G43A-0902. *Poster Presentation*.

Voss, N.K., Liu, Z., **Hobbs, T.E.**, Schwartz, S.Y., Malservisi, R., Dixon, T., Protti, M. *Aseismic Slip Throughout the Earthquake Cycle in Nicoya Peninsula, Costa Rica*. American Geophysical Union Fall Meeting, New Orleans, LA, USA, 2017. ID: T13E-02. *Oral Presentation*.

Hobbs, T.E., Newman, A.V., and Peng, Z. *Defining the Temporal Relationship Between Afterslip and Aftershocks Using Dense Seismic and Geodetic Networks in Nicoya, Costa Rica*. Seismological Society of America Annual Meeting, Denver, CO, USA, 2017. *Oral Presentation*.

Hobbs, T.E., Kyriakopoulos, C., Newman, A.V., Yao, D., Dixon, T., Protti, M. *Recovering the Full Afterslip Following the 2012 Mw 7.6 Nicoya, Costa Rica Earthquake*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2016. ID: 137120. *Oral Presentation*.

Newman, A.V., Yao, D., Kyriakopoulos, C., Moore-Driskell, M.M., **Hobbs, T.E.**, Peng, Z., Schwartz, S., Protti, M., Gonzalez, V. *The Possible Decapitation of a Megathrust Indenter: Evidence from Imaging of Time-dependent Microseismic Structures before and after the 2012 Mw 7.6 Nicoya, Costa Rica*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2016. ID: 149139. *Oral Presentation*.

Newman, A.V., **Hobbs, T.E.**, Kyriakopoulos, C., Dixon, T., Schwartz, S.Y., Protti, M. *Partitioning of the Total Slip Signal through the Seismic Cycle: Results from the Nicoya Seismic Cycle Observatory (NSCO)*. Subduction Zone Observatory Workshop, Boise, ID, USA, 2016. *Poster Presentation*.

Conference Proceedings Continued

Hobbs, T.E., Newman, A.V., Yao, D., Protti, M. *Continued Trenchward Procession of Upper Plate GPS Sites Following the 2012 Mw 7.6 Nicoya Earthquake*. General Assembly of the Latin American and Caribbean Seismological Commission, San Jose, Costa Rica, 2016. Paper Number 230. *Oral Presentation*.

Walter, J.I., Kao, H., Meng, X., Peng, Z., **Hobbs, T.E.**, Dotray, P., Newman, A.V., Mulder, T. *Dynamic interactions between the October 28th 2012 Haida Gwaii and January 5th 2013 Craig earthquakes and other faults in Southeast Alaska*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2015. Abstract ID: S13D-07. *Oral Presentation*.

Hobbs, T.E., Newman, A.V., Protti, M. *Continued Trenchward Procession of Upper Plate GPS Sites Following the 2012 Mw 7.6 Nicoya Earthquake*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2015. Abstract ID: T43C-3017. *Poster Presentation*.

Newman, A.V., Kyriakopoulos, C., Feng, L., **Hobbs, T.E.**, Dixon, T.H., Malservisi, R., Protti, J.M. *The Continuum of Slip along the Subduction Megathrust: Observations and Understanding Gained from the Nicoya Seismic Cycle Observatory*. Seismological Society of America Annual Meeting, Pasadena, CA, USA, 2015. *Invited*.

Hobbs, T.E., Cassidy, J.C., and Dosso, S.E. *Possible Interactions between the 2012 Mw 7.8 Haida Gwaii Subduction Earthquake and the Transform Queen Charlotte Fault*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2014. Abstract ID: S23A-4483. *Poster Presentation*.

Hobbs, T.E., Cassidy, J.C., and Dosso, S.E. *Rupture Properties of the Mw 7.7 2012 Haida Gwaii Earthquake from an Empirical Green's Function Method*. Seismological Society of America Annual Meeting, Anchorage, AK, USA, 2014. Abstract ID: 14-003. *Oral Presentation*.

Hobbs, T.E., Cassidy, J.C., and Dosso, S.E. *Coulomb Stress Changes Resulting from the Mw 7.7 2012 Haida Gwaii Earthquake*. Seismological Society of America Annual Meeting, Anchorage, AK, USA, 2014. Abstract ID: 14-002. *Poster Presentation*.

Hobbs, T.E., Brillon, C., Cassidy, J.C., Dosso, S.E., and Dragert, H. *Coulomb Stress Changes Following the Mw 7.7 2012 Haida Gwaii Earthquake*. Canadian Geophysical Union Annual Meeting, Saskatoon, SK, Canada, 2013. Abstract ID: 3D4.3--6606. *Oral Presentation*.

Hobbs, T.E., and Darbyshire, F.A. *SkS Splitting Measurement of Seismic Anisotropy in Southern & Central Quebec*. Canadian Geophysical Union Annual Meeting, Banff, AB, Canada, 2012. *Poster Presentation*.

Darbyshire, F.A., and **Hobbs, T.E.** *Crustal Thickness Variations Across Central and Southern Québec From Receiver Function Analysis*. Canadian Geophysical Union Annual Meeting, Banff, AB, Canada, 2011. *Poster Presentation*.

Hobbs, T.E., and Darbyshire, F.A. *Crustal Thickness Variations Across Eastern Canada and Maine From Receiver Function Analysis*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2010. Abstract ID: T33D-2285. *Poster Presentation*.

Invited Speaking Engagements

Hobbs, T.E., Journeay, J.M., Kolaj, M., Podlaha, A., and Trendafiloski, G. *New Perspectives on Earthquake Risk in Canada*. Panelist at CatIQ Connect session, 'New Perspectives on Earthquake Risk in Canada' moderated by John Schneider, Toronto, ON, Canada, 2020.

Hobbs, T.E., and Hilt, M.P. *Regional Seismic Risk Modelling and its Impact on Policy Development*. Lecture for the University of British Columbia, Course CIVL 506, Vancouver, BC, Canada, 2020.

Hobbs, T.E. *Earthquake Scenarios for Community Resilience*. Presentation to the Board of the Mid Island Emergency Coordinators and Managers, Qualicum Beach, BC, Canada, 2020.

Hobbs, T.E. *Earthquake Scenarios for Community Resilience*. Presentation to the Strathcona Emergency Program Committee, Campbell River, BC, Canada, 2020.

Hobbs, T.E., Journeay, J.M., Bird, A.L., Cassidy, J.F. *Seismic Scenarios in British Columbia*. Presentation to the British Columbia Seismic Safety Commission, Victoria, BC, Canada, 2020.

Invited Speaking Engagements Continued

- Hobbs, T.E.**, Journeay, J.M. *Implementing Updated Fragility & Vulnerability Functions in Scenario Earthquakes*. Presentation to City of Vancouver Seismic Engineering Review Committee, Vancouver, BC, Canada, 2020.
- Hobbs, T.E.** *Using Dense Seismic and Geodetic Networks to Examine [Unexpected] Postseismic Behaviour of the Nicoya, Costa Rica Megathrust*. Tectonics Seminar Series at the Pacific Geoscience Centre, Sidney, BC, Canada, 2020.
- Hobbs, T.E.**, Journeay, J.M. *An Earthquake Risk Profile of Canada; Knowledge to Inform Disaster Resilience Planning*. Seminar presentation for the Canadian Hazards Information Service, Ottawa, ON, Canada, 2020.
- Hobbs, T.E.**, Journeay, J.M., Cassidy, J.C. *Earthquakes in British Columbia: Preparing for the ‘Big One’ and the ‘Other Ones’*. Presentation to the Metro Vancouver Regional District & Regional Engineers Advisory Committee Utility Tabletop Exercise, Burnaby, BC, Canada, 2019.
- Hobbs, T.E.**, Journeay, J.M. *An Earthquake Risk Profile of Canada: Knowledge to Inform Disaster Resilience Planning*. Presentation to the Director General Interdepartmental Table on Earthquake Risk, Government of Canada, Ottawa, ON, Canada, 2019.
- Hobbs, T.E.**, Journeay, J.M. *Eastern Canada Earthquake Scenarios*. Workshop presentation for ‘Earthquake Risk Modeling in Canada: From Knowledge to Action’, London, ON, Canada, 2019.
- Hobbs, T.E.** *Seismicity in British Columbia*. Presentation to the Union of British Columbia Municipalities Convention, Vancouver, BC, Canada, 2019.

Science News Publications

- Hobbs, T.E.** (2020), *Dual disaster planning, communication and reason for hope: a discussion with professor Sam Montano*, Temblor, <http://doi.org/10.32858/temblor.086>
- Hobbs, T.E.**, Shinji, T. (2020), *Significant Idaho earthquake unlikely to cause unrest in Yellowstone*, Temblor, <http://doi.org/10.32858/temblor.081>
- Hobbs, T.E.** (2020), *Earthquake strikes Utah amid COVID-19 pandemic*, Temblor, <http://doi.org/10.32858/temblor.078>
- Hobbs, T.E.** (2020), *Shaking on Mars Creating Good Vibrations On Earth*, Temblor, <http://doi.org/10.32858/temblor.075>
- Eyidoğan, H., **Hobbs, T.E.** (2020), *Recovery Underway Following Damaging 24 January 2020 Elazığ Earthquake in Eastern Turkey*, Temblor, <http://doi.org/10.32858/temblor.070>
- Hobbs, T.E.** (2020), *More unrest in the Caribbean as Jamaica is struck by a magnitude 7.7 earthquake*, Temblor, <http://doi.org/10.32858/temblor.069>
- Hobbs, T.E.** (2019), *Can science tell when a large earthquake will be followed by an even larger one?*, Temblor, <http://doi.org/10.32858/temblor.056>
- Hobbs, T.E.** (2019), *Over 66 million people participate in international ShakeOut; prompts evaluation of personal preparedness*, Temblor, <http://doi.org/10.32858/temblor.052>
- Hobbs, T.E.** (2019), *Indonesian “Black Swan” quake: a painful reminder of last year’s M 7.5 Palu shock*, Temblor, <http://doi.org/10.32858/temblor.044>
- Hobbs, T.E.** (2019), *August 1, 2019, magnitude-6.8 Chile earthquake reveals stress is building on the megathrust*, Temblor, <http://doi.org/10.32858/temblor.042>
- Hobbs, T.E.** (2019), *How Apollo 11’s moonquakes changed our understanding of earthquakes*, Temblor, <http://doi.org/10.32858/temblor.041>
- Stein, R.S., Rollins, C., Sevilgen, V. **Hobbs, T.E.** (2019), *M 7.1 SoCal earthquake triggers aftershocks up to 100 mi away: What’s next?*, Temblor, <http://doi.org/10.32858/temblor.038>

Science News Publications Continued

Stein, R.S., **Hobbs, T.E.**, Rollins, C., Ely, G., Sevilgen, V., Toda, S. (2019), *Magnitude 7.1 earthquake rips northwest from the M6.4 just 34 hours later*, Temblor, <http://doi.org/10.32858/temblor.037>

Hobbs, T.E., Rollins, C. (2019), *Earthquake Just North of Cascadia is Felt Along Canada's West Coast*, Temblor, <http://doi.org/10.32858/temblor.036>

Hobbs, T.E., Rollins, C. (2019), *Earthquake early warning system challenged by the largest SoCal shock in 20 years*, Temblor, <http://doi.org/10.32858/temblor.035>

Hobbs, T.E. (2019), *The first Marsquake is recorded*, Temblor, <http://doi.org/10.32858/temblor.031>

Hobbs, T.E., Stein, R.S. (2019), *El Salvador Earthquake: A Moderate Event in An Area of Extreme Seismic Risk*, Temblor, <http://doi.org/10.32858/temblor.025>

Hobbs, T.E. (2019), *Deep earthquake in Peru is felt along the length of South America*, Temblor, <http://doi.org/10.32858/temblor.024>

Hobbs, T.E. (2019), *Large Earthquake in Papua New Guinea re-ruptures major fault in just 19 years: More to follow?*, Temblor, <http://doi.org/10.32858/temblor.022>

Hobbs, T.E. (2018 – present) *T. Hobbs Field Research Blog* Retrieved from <https://thobbsfield.wordpress.com>

Hobbs, T.E. (2018, October-December) *Planetary Habitability & Technology Blog* Retrieved from <https://nobusinesslikesnowbusiness.wordpress.com>

Hobbs, T.E. (2018, July 11-25) *Alaska Amphibious Community Seismic Experiment Blog* Retrieved from <https://alaskaamphibious.wordpress.com/2018/07/11/> ; <https://alaskaamphibious.wordpress.com/2018/07/18/>

Hobbs, T.E., Toda, S. (2018), *Did Tuesday's M 7.9 Kodiak earthquake nudge the Alaskan Megathrust closer to failure?*, Temblor, <http://doi.org/10.32858/temblor.005>

Hobbs, T.E. (2018, January 23) *M 7.9 Alaska earthquake strikes off the coast of Kodiak Island, triggering a tsunami and questions*. Retrieved from <http://temblor.net/earthquake-insights/m7-9-alaska-earthquake-strikes-off-the-coast-of-kodiak-island-triggering-a-tsunami-and-questions-6143/>

Techniques

GPS & seismic fieldwork	Risk Modelling (OpenQuake)	Coulomb stress analysis
Geodetic inversion	Slope Stability Analysis	Instrument design
GIS Software	Tableau Data Visualization	InSAR processing
SkS splitting	Receiver function stacking	H/V spectral ratio

Training

Short Course Advanced Webinar: SAR for Disasters and Hydrological Applications (NASA), 2019

Apply-to-Sail Participant Alaska Amphibious Community Seismic Experiment (GeoPRISMS), 2018

Short Course Aftershock Forecasting (SSA), 2018

Short Course Probabilistic Seismic Hazard Analysis with Slab 2.0 (SSA), 2018

Short Course Communicating Science for Impact (UNAVCO), 2018

Short Course Gipsy-X User Training (JPL), 2017

Short Course Probabilistic Seismic Hazard Analysis (SSA), 2017

Short Course Advanced INSAR Processing (UNAVCO), 2015

Short Course Practical Sequence Stratigraphy: Concepts and Applications (CSPG), 2012

Awards

Award for Outstanding Service

Georgia Institute of Technology, School of Earth and Atmospheric Sciences
2019

Student Presentation Award

Seismological Society of America
2018

NSERC Post-Graduate Doctoral Fellowship

Natural Sciences and Engineering Research Council of Canada
2016 – 2018

Kurt Frankel Award for Excellence in Field Work

Georgia Institute of Technology, School of Earth and Atmospheric Sciences
2017

Student Travel Award

Seismological Society of America
2017

Invitation for Dean's Lecture Series

University of Victoria, Faculty of Graduate Studies
2014

Fellowship for Graduate Students

University of Victoria, Faculty of Science
2012, 2013

Student Travel Award

Canadian Geophysical Union
2012, 2013

Introduction to Research Scholarship

GEOTOP, Montréal, Quebec
2012

Logan Award

McGill University, Faculty of Science
2011

Frederick M. Connell Award

McGill University, Faculty of Science
2011

Graham Scholarship in Science

McGill University, Faculty of Science
2011

Service

Co-Chair, Hazards Equity Working Group

American Geophysical Union Natural Hazards Section
2020 – present

Expert Reviewer, Seismic Retrofit Guidelines

Engineers and Geoscientists British Columbia
2020

Service Continued

Scientist, Skype A Scientist Program

<https://www.skypeascientist.com/>

2018 – 2019

Coordinator, Georgia Tech Science Showcase Series

Ponce City Farmers Market, Atlanta, GA

2018

Science Coordinator, Graduate Student Symposium

Georgia Institute of Technology, School of Earth and Atmospheric Sciences

2017

Member, Society of Exploration Geophysicists

Georgia Institute of Technology Chapter

2015 – 2018

First Year Mentoring Chair, Graduates in Earth and Atmospheric Sciences Council

Georgia Institute of Technology

2015 – 2017

Vice President, Graduates in Earth and Atmospheric Sciences Council

Georgia Institute of Technology

2014 – 2016

Volunteer & Member, Planetary Society

Georgia Institute of Technology Chapter

2014 – 2016

Volunteer, 'Let's Talk Science' National Outreach Program

University of Victoria

2013 – 2014

Vice President External, Monteregian Society

Department of Earth and Planetary Science's Undergraduate Student Council

McGill University

2010 – 2011

President, Environmental Residence Council

Vice President of Environment, University Residence Council

McGill University

2008 – 2009

Teaching Assistant Experience

EOS 120: Dynamic Earth

School of Earth & Ocean Sciences

University of Victoria, Victoria, BC, Canada

EOS 170: Natural Hazards

School of Earth & Ocean Sciences

University of Victoria, Victoria, BC, Canada

EOS 201: Sedimentary Geology

School of Earth & Ocean Sciences

University of Victoria, Victoria, BC, Canada

EAS 2600: Earth Processes

Earth & Atmospheric Sciences Department

Georgia Institute of Technology, Atlanta, GA, USA