

Erich Herzig

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Education

2014-2018 Geophysics BS, *California Institute of Technology*

2018-current PhD Earth and Space Sciences, *University of Washington*

Teaching Experience

Caltech:

TA for Ge1 - Earth and Environment.

University of Washington:

TA for ESS 427 Hillslope Geomorphology (Fall 2019)

TA for ESS 421 Introduction to Remote Sensing (Winter 2020)

TA for ESS 102 Space and Space Travel (Spring 2020)*

TA for ESS 401 Field Geology With GIS (Summer 2020)*

Developed 'Landslide Mapping and Analysis' Module with Alison Duvall
(https://serc.carleton.edu/NAGTWorkshops/online_field/activities/237687.html)

TA for ESS 400 Field Geology (Summer 2020)*

TA for ESS 420 Introduction To GIS For The Earth Sciences (Spring 2021)

TA for ESS 401 Field Geology With GIS (Summer 2021)

Involved leading a field trip and course module

TA for ESS 400 Field Geology (Summer 2021)

TA for ESS 420 Introduction To GIS For The Earth Sciences (Fall 2021)

TA for ESS 401 Field Geology With GIS (Summer 2022)

Involved leading a field trip and course module

TA for ESS 420 Introduction To GIS For The Earth Sciences (Fall 2022)

*Helped adapt this class to be taken fully remotely

Mentoring Experience

3D Seattle Geology Mapping Project (Spring 2022-Fall 2022)

Zhengyang 'Steven' Wang (BS UW 2022)

Junhao Li (BS UW 2022)

Previous Research Experience

Astrophysics research intern, *Caltech* (6/13-9/13)

Astrophysics summer research fellowship (SURF), *Caltech* (6/15-9/15)

Geophysics internship, *DCOR* (6/16-9/16)

Geomorphology/Geophysics academic year undergraduate research, and summer research fellowship (SURF), *Caltech* (1/17-5/18)

Student, South Island Subduction Initiation Experiment (SISIE), *Caltech Ge 211* (2/18-3/18)

Manuscripts

Herzig, E., Duvall, A., Booth, A., Stone I., Wirth E., LaHusen, S., Wartman, J., and grant a., Evidence of a Seattle Fault Earthquake from Patterns in Deep Seated Landslides. *In Preparation*

Gurnis, M., Van Avendonk, H., Gulick, S.P., Stock, J., Sutherland, R., Hightower, E., Shuck, B., Patel, J., Williams, E., Kardell, D. and **Herzig, E.**, 2019. Incipient subduction at the contact with stretched continental crust: The Puységur Trench. *Earth and Planetary Science Letters*, 520, pp.212-219.

Swift, J.J., Bottom, M., Johnson, J.A., Wright, J.T., McCrady, N., Wittenmeyer, R., Plavchan, P.P., Riddle, R.L., Muirhead, P.S., **Herzig, E.** and Myles, J., 2015. Miniature Exoplanet Radial Velocity Array I: design, commissioning, and early photometric results. *Journal of Astronomical Telescopes, Instruments, and Systems*, 1(2), p.027002.

Bottom, M., Muirhead, P.S., Swift, J.J., Zhao, M., Gardner, P., Plavchan, P.P., Riddle, R.L., **Herzig, E.**, Johnson, J.A., Wright, J.T. and McCrady, N., 2014, July. Design, motivation, and on-sky tests of an efficient fiber coupling unit for 1-meter class telescopes. In *Ground-based and Airborne Instrumentation for Astronomy V* (Vol. 9147, p. 91472E). International Society for Optics and Photonics.

National and International Presentations

Oral Presentations:

Erich Herzig, Alison Duvall, Adam Booth, Sean Lahusen, and Joseph Wartman "Spatiotemporal Patterns of Deep-Seated Landslides in the Puget Lowland, Washington" *AGU Fall Meeting Abstracts*. 2021.

Poster presentations:

Herzig, Erich, T. P. Ulizio, and M. P. Lamb. "Debris Flow Initiation by Flash Floods in Flume Experiments." *AGU Fall Meeting Abstracts*. 2017.

Herzig, Erich, and A Duvall. "Past and Future Coseismic Landslides caused by the Seattle Fault" *SSA Meeting Abstracts*. 2019.

Herzig, Erich, and A Duvall. "Looking for Past and Future Landslides triggered by the Seattle Fault" *Galileo conference – Perturbations of earth surface dynamics caused by extreme events*. 2019.

Erich Herzig, Alison Duvall, Adam Booth, Ian Stone, Erin Wirth, Sean LaHusen, Joseph Wartman, alex grant. "Paleoseismic Analysis of the Last Seattle Fault Earthquake using a Dated, Deep-Seated Landslide Inventory" *Disaster Research Response Workshop*, 2022.

Erich Herzig, Alison Duvall, Adam Booth, Ian Stone, Erin Wirth, Sean LaHusen, Joseph Wartman, alex grant. "Paleoseismic Analysis of the Last Seattle Fault Earthquake using a Dated, Deep-Seated Landslide Inventory" *Cascadia Coastline and Peoples Hazards Research Hub Annual Meeting*, 2022.

Erich Herzig, Alison Duvall, Adam Booth, Ian Stone, Erin Wirth, Sean LaHusen, Joseph Wartman, alex grant. "Paleoseismic Analysis of the Last Seattle Fault Earthquake using a Dated, Deep-Seated Landslide Inventory" *USGS Subduction Zone Science Workshop*, 2023.