Curriculum Vitae – Lindsay Schoenbohm

# A. BIOGRAPHICAL INFORMATION

## 1. PERSONAL – Dr. Lindsay Marie Schoenbohm

Department of Chemical and Physical Sciences

University of Toronto Mississauga

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Mississauga, ON L5L 1C6

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## 2. DEGREES

**Massachusetts Institute of Technology, Cambridge, Massachusetts**

Sept. 1998 – Jan. 2004

• Ph.D., Department of Earth, Atmospheric and Planetary Sciences:

• Thesis title: Cenozoic Tectonic and Landscape Evolution of the Red River Region, Yunnan Province, China

**Carleton College, Northfield, Minnesota**

Aug. 1994 – June 1997

• BA (Magna Cum Laude), Department of Geology

## 3. EMPLOYMENT

**Professor, Chemical and Physical Sciences, University of Toronto Mississauga**

July 2021-present

**Chair, Chemical and Physical Sciences, University of Toronto Mississauga**

July 2019-present

**Associate Chair, Research, Chemical and Physical Sciences, University of Toronto Mississauga**

May 2018-June 2019

**Associate Professor, Chemical and Physical Sciences, University of Toronto Mississauga**

July 2014-June 2021

**Assistant Professor, Chemical and Physical Sciences, University of Toronto Mississauga**

July 2009-June 2014

**Joubin-James Visiting Fellow, Department of Geology University of Toronto**

Jan. 2009 – May 2009

**Assistant Professor, School of Earth Sciences, Ohio State University, School of Earth Science**

Aug. 2005 – June 2009

**Alexander von Humboldt Post-Doctoral Fellow, Institut für Geowissenschaften, Universität Potsdam**

Sept. 2004 – July 2005

**Postdoctoral Research Associate, Institut für Geowissenschaften, Universität Potsdam**

Feb. 2004 – Aug. 2004

## 4. HONOURS

• 2023 Journal of Geological Education Outstanding Paper Award

• 2022 UTM E. A. Robinson Teaching Excellence Award for Senior Faculty

• 2009 Joubin-James Fellowship, University of Toronto

• 2005 Alexander von Humboldt Fellowship, University of Potsdam

## 5. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

• **Associate Editor**: TECTONICS, 2010-2018

• **Editorial Board**: GEOLOGY, 2008-2010

• **Panelist**: NSERC Discovery Grant Evaluation Group Member (1506), 2020-present

• **Panelist**: NSF Tectonics program x3

• **Panelist**: NSF Frontiers of Earth System Dynamics program

• **Convener** CGU special session:

Spring 2017: The interaction between climate and tectonics in Late Cenozoic landscape evolution

• **Convener** AGU special session:

Fall 2011: Linkages among orogenic processes in Cordilleran systems

Fall 2009: From East to West: New Views on the Geology and Tectonics of the Himalayan-Tibetan Orogen

Spring 2009: Lithospheric Foundering from top to bottom

Fall 2008: Interactions among Climate, Exhumation and Tectonics through the Changing Climate of the Neogene and Quaternary

Fall 2006: Dynamics of Orogenic Belts and Plateaus

• **Reviewer** for: *American Journal of Science (1), Basin Research (2), Earth and Planetary Science Letters (2), Geology (5), Geomorphology (2), Geophysical Research Letters (3), Geosphere (1), Geological Society of America Bulletin (1), Nature Geoscience (1), Palaeogeography Palaeoclimatology Palaeoecology (1), Quaternary Research (1), Tectonics (8 outside of editorial duties), Journal of Seismology (2)*

• **Member**: American Geophysical Union since 2000

• **Invited speaker:** ~30 talks in Canada, the US, China and Argentina

# B. ACADEMIC HISTORY

## 6. A. RESEARCH ENDEAVOURS

**KEYWORDS:** Lithospheric foundering, lower crustal flow, plateau uplift, intracontinental strike-slip faults, river incision, drainage reorganization, fluvial erosion, glacial erosion, glacial morphology, wind erosion, climate-tectonic interactions, neotectonics

**Lithospheric foundering in the Puna Plateau** (ongoing) – geodynamic modeling, geomorphic and structural mapping, U-Pb ash dating, 40Ar/39Ar basalt dating

**Climatic and Tectonic controls on erosion rate and landscape evolution in NW Argentina** (ongoing) - geomorphic and structural mapping, U-Pb ash dating, cosmogenic dating of terraces, cosmogenic basin-wide erosion rate determination, morphometrics, Bayesian modeling

**Quaternary spatial and temporal deformation field of the Central Andean Foreland** (ongoing) - geomorphic and structural mapping, U-Pb ash dating, cosmogenic dating of terraces, morphometrics

**Cenozoic Tectonic and Landscape Evolution of the SE margin of the Tibetan Plateau** (ongoing) - geomorphic and structural mapping, river longitudinal profile analysis, low-temperature thermochronology

**Glacier-tectonic interactions in the Pamir and Himalaya** (ongoing) - geomorphic and structural mapping, low-temperature thermochronology, glacial morphology, cosmogenic dating of terraces and moraines

**Neotectonics and seismic hazards in the Pamir, Argentina, Central Anatolia and Ontario** (ongoing) – geomorphic and structural mapping, cosmogenic dating, morphometrics

**Structural evolution of the Central Anatolian Plateau** (ongoing) - geomorphic and structural mapping, cosmogenic dating of terraces and moraines, 40Ar/39Ar dating of basalts, cinder cone morphology

## 6. B. RESEARCH AWARDS GRANTED

(\* indicates Schoenbohm as principal investigator):

21. **CFI Innovation Fund**

June 15, 2023

PI – Ingo Ensmiger, UTM Biology

*Centre for Robotic Observations of the Biosphere and the Environment (CROBE)*

1,785,000 CAD

20. \***UTM Research and Scholarly Activity Fund (RSAF)**

December 9, 2020

*The Record of Past Earthquakes in the Eastern Great Lake Basin*

10,000 CAD

19. \***NSERC Discovery Grant**

April 1, 2020 – March 31, 2025

*Wind, Water & Ice: How Erosion Interacts with Climate and Tectonics to Shape the Landscape*

305,000 CAD

18. \***Mitacs Globalink Research Award – Abroad**

June 3-October 27, 2019

Student PI – Shalaila Bhalla

*Tectonics of Mount Abu Granitoid, Rajasthan, India*

6,000 CAD

17. **NSF Division of Earth Sciences - Tectonics**

August 1, 2018-July 31, 2021

PI – Peter DeCelles, University of Arizona

*Are Remnants of the Tibetan Plateau Preserved in the Southern Himalayan Thrust Belt?*

46,438 USD

16. \***UTM Research and Scholarly Activity Fund (RSAF)**

February 20, 2018

*Are Remnants of the Tibetan Plateau Preserved in the Southern Himalayan Thrust Belt?*

9,944.07 CAD

15. \***University of Toronto Provost’s Instructional Technology Innovation Fund (ITIF)**

Jan 31, 2017 – Jan 31, 2019

*Virtual field trips: enhancing student 3-D visualization and access to geological field sites*

19,514 CAD

14. \***NSERC Discovery Accelerator Supplement**

April 1, 2015 – March 31, 2018

*How do continental plateaus grow? Mantle to Surface Dynamics of the Anatolian and Andean Plateaus*

120,000 CAD

13. \***NSERC Discovery Grant**

April 1, 2015 – March 31, 2020

*How do continental plateaus grow? Mantle to Surface Dynamics of the Anatolian and Andean Plateaus*

135,000 CAD

12. **NSF Division of Earth Sciences - Continental Dynamics**

September 1, 2011 – August 31, 2016

PI – Donna Whitney, University of Minnesota

*Central Anatolian Tectonics: Surface to mantle dynamics during collision to escape*

International Collaborator (U of T portion of budget: $48,000)

11. \***Ministry of Research and Innovation, Ontario Research Foundation**

March, 2011

*Integrated field- and laboratory-based geomorphic and geologic mapping facility for the study of active faults and landscape evolution*

64,069 CAD

10. \***Canadian Foundation for Infrastructure**

November, 2010

*Integrated field- and laboratory-based geomorphic and geologic mapping facility for the study of active faults and landscape evolution*

64,069 CAD.

9. \***NSERC Discovery Accelerator Supplement**

April 1, 2010 – March 31, 2013

*How do continental plateaus grow? Climate-tectonic interactions in Tibet, Anatolia and the Central Andes*

120,000 CAD.

8. \***NSERC Discovery Grant**

April 1, 2010 – March 31, 2015

*How do continental plateaus grow? Climate-tectonic interactions in Tibet, Anatolia and the Central Andes*

125,000 CAD.

7. **NSF Division of Earth Sciences - Tectonics**

September 1, 2009 – August 31, 2012

PI – Barbara Carrapa, University of Arizona

*Collaborative Research: In pursuit of missing Andean lithosphere: constraining Late Cenozoic crust-mantle processes in the Puna Plateau, Central Andes*

International Collaborator (original budget: $248,515).

6. **NSF Division of Earth Sciences - Tectonics**

June 1, 2009 – May 31, 2012

PI – Alex Robinson, University of Houston

*Collaborative Research: Continuation and termination of the Karakorum and Karakax faults in Western Tibet: Implications for the role of regional strike-slip faults in orogenic belts*

International Collaborator (original budget: $173,747).

5. \***NSF Division of Earth Sciences - Tectonics**

March 1, 2008 – April 30, 2011

*Collaborative Research: Towards a Quaternary Spatial and Temporal deformation History at the Central Andean Thrust Front*

$219,139

4. \***NSF Division of Earth Sciences - Tectonics**

June 1, 2007 – May 31, 2009

*Climatic and Tectonic controls on the marginal basins of the southern Puna Plateau*

$171,911.

3. \***Southern California Earthquake Center**

February 1, 2007-January 31, 2008

*Mapping the southern San Andreas Fault using LiDAR Data from the “B4” Project*

$15,000.

2. \***PRIME Lab SEED Grant, Purdue University**

2006-2007

*Geodetic, Geomorphic and Paleoseismic Studies of Thin- and Thick-Skinned Orogeny in the Precordillera and Sierras Pampeanas of Western Argentina*

$5,450.

1. \***DeutscheForschungsGemeinschaft** (German Science Foundation)

June 1, 2006 – December 31, 2009

*Structural and geomorphic origin of anomalous topographic culminations in the Chinese Pamir: Muztagh Ata and Kongur Shan*

€ 158,630.

# C. SCHOLARLY AND PROFESSIONAL WORK

## 7. REFEREED PUBLICATIONS

1. Articles (h index = 33, ~4500 citations, \*indicates student or postdoc under my supervision at the time the work was undertaken, underlining indicates senior author)

A73. \*McMillan, M., **Schoenbohm, L.M.**, \*Tye, A., R., **2023**, Plateau formation controlled by lithospheric foundering under a weak crust: Geophysical Research Letters, v. 50, doi: 10.1029/2023GL103996.

A72. Godin, L., \*Crilly, B., **Schoenbohm, L.M.**, Wolpert, J., **2023**, Recent Basement Fault Reactivation and Fluvial Drainage Modification in an Intraplate Setting, Eastern Bundelkhand Craton, Madhya Pradesh, India: Geomorphology, v. 436, doi: 10.1016/j.geomorph.2023.108781.

A71. \*McMillan, M., **Schoenbohm, L.M.**, **2023**, Diverse styles of lithospheric dripping: Synthesizing gravitational instability models, continental tectonics, and geologic observations: Geochemistry, Geophysics, Geosystems, v. 24(2), doi: 10.1029/2022GC010488.

A70. \*Luo, Q., Li, Y., **Schoenbohm, L.M.**, Rimando, J., Hu, X., Guo, A., Zhao, J., Li, X., Liu, Q., Jiang, S., Li, C., Sun, K., **2022**, Direct evidence for dextral shearing in the Shanxi Graben System: geologic and geomorphologic constraints from the North Liulengshan Fault: Tectonics, v. 41(12) doi:10.1029/2022TC007490.

A69. Sherpa, T.Z.L., DeCelles, P.G., Carrapa, B., **Schoenbohm, L.M.**, Wolpert, J., **2022**, Bhumichula plateau: a remnant high-elevation low-relief surface in the Himalayan thrust belt of western Nepal: GSA Bulletin, doi:10.1130/B36481.1.

A68. \*Giona Bucci, M., **Schoenbohm, L.M., 2022**, Methodologies for conducting a tectono-geomorphic study in a low relief, low-moderate seismically active area, in the Temiskaming Region, Eastern Canada: Remote Sensing, v. 14(15), 3587, doi: 10.2290/rs14153587.

A67. \*McMillan, M., **Schoenbohm, L.M.**, \*Tye, A., \*McMillan, M., Zhou, R., **2022**, Eocene to Quaternary deformation of the southern Puna Plateau: Thermochronology, geochronology, and structural geology of an Andean Hinterland Basin (NW Argentina): Tectonics, vol. 41(6), doi: 10.1029/2022TC007252.

A66. \*Dortch, J.M., Tomkins, M.D., Saha, S., Murari, M.K., **Schoenbohm, L.M.**, and Curl, D., **2022**, Probabalistic Cosmogenic Age Analysis Tool (P-CAAT), a Tool for the Ages: Quaternary Geochronology, v. 71, doi:10.1016/j.quageo.2022.101323.

A65. \*Tye, A., McMillan, M., **Schoenbohm, L.M.**, Zhou, R. **2022**, Late Cenozoic extensional formation of the Antofalla depression, southern Puna plateau, Argentina: an effect of lithospheric foundering?: Tectonics, v. 41(3), doi: 10.1029/2021TC006807.

A64. \*Seagren, E.G., \*McMillan, M., **Schoenbohm, L.M.**, **2022**, Tectonic Control on Drainage Evolution in Broken Forelands: Examples from NW Argentina: Tectonics, v. 41(1), doi: 10.1029/2020TC006536.

A63. **Schoenbohm, L.M.**, and \*McMillan, M., **2021**, Worldbuilding from Tectonic First Principles: Integrating and Challenging Undergraduate Knowledge through a Course Project: Journal of Geoscience Education, doi.org/10.1080/10899995.2021.1908810.

A62. \*Seagren, E.G., and **Schoenbohm, L.M.**, **2021**, Drainage Reorganization across the Puna Plateau Margin (NW Argentina): Implications for the Preservation of Orogenic Plateaus: JGR – Earth Surface, v. 126(8), doi: 10.1029/2021JF006147.

A61. \*Rimando, J.M., **Schoenbohm, L.M.**, Ortiz, Gustavo, Alvarado, P., Venerdini, A., Owen, L.A., Seagren, E.G., Figueriedo, P.M., and Hammer, S.J., **2021**, Late Quaternary intraplate deformation Defined by the Las Chacras Fault Zone, West-Central Argentina: Tectonics, v. 40, doi.org/10.1029/2020TC006509.

A60. Lee, C.H., Seong, Y.B., **Schoenbohm, L.M.**, Kim, D.-E., and Yu, B.Y., **2021**, Geomorphic constraints on the development of a blind-thrust induced landform, south-central Mongolia: Insights into foreberg growth: Geomorphology, v. 378, doi:10.1016/j.geomorph.2021.107613.

A59. Xu, J.-H., Arrowsmith, R.J., Chen, J., **Schoenbohm, L.M.**, Li, T., and Yuan, Z.-D., **2021**, Evaluating young fluvial terrace riser degradation using a nonlinear transport model: with applications to the Kongur Normal Fault in the Pamir, northwest China: Earth Surface Processes and Landforms, v. 46, p. 280-295 doi:10.1002/esp.5002.

A58. Wang, Y., Wang, Y., **Schoenbohm, L.M.**, Zhang, P., Zhang, B., Sobel, E.R., Zhou, R., Shi X., Zhang, J., Stockli, D.F., and Guo, X., **2020**, Cenozoic exhumation of the Ailaoshan-Red River shear zone: New insights from low-temperature thermochronology: Tectonics, doi: 10.1029/2020TC006151.

A57. \*Seagren, E.G., **Schoenbohm, L.M.**, Owen, L.A., Figueredo, P., Hammer, S., \*Rimando, J.M., Wang, Y., and \*Bohon, W., **2020**, Lithology, topography, and spatial variability of vegetation moderate fluvial erosion in the south-central Andes: EPSL, v. 551, 116555, doi:10.1016/j.epsl.2020.116555.

A56. \*McMillan, M., and **Schoenbohm, L.M.**, **2020**, Extreme wind erosion in the Puna Plateau: the Salina del Fraile depression: JGR – Earth Surface, doi:10.1029/2020JF005682.

A55. \*Krystopowicz, N., **Schoenbohm, L.M.**, \*Rimando, J.R., Gilles, B., and Rojay, B., **2020**, Tectonic geomorphology and Plio-Quaternary structural evolution of the Tuzgölü fault zone: Implications for deformation in the interior of the Central Anatolian Plateau: Geosphere, v. 16, doi:10.1130/GES02175.1.

A54. \*Buceta, R., **Schoenbohm, L.M.**, DeCelles, P.G., **2020**, Glacial and Fluvial Erosion in the Dolpo Basin, Western Nepal: Geomorphology, v. 354, doi:10.1016/j.geomorph.2020.107033.

A53. \*Rimando, J.M., and **Schoenbohm, L.M.**, **2020**, Regional Relative Tectonic Activity of Structures in the Pampean Flat Slab Segment of Argentina from 30 to 32°S: Geomorphology, v. 350doi:10.1016/j.geomorph.2019.106908.

A52. Wang, Y., Wang, Y.-J., Zhang, P.-Z., **Schoenbohm, L.M.**, Zhang, B., Zhang, J.-J., Zhou, R.-J., Stockli, D., \*Seagren, E., Wang, F., and Wu, L., **2020**, Intracontinental deformation within the India-Eurasia oblique convergence zone: case studies in the Nantinghe and Dayingjiang faults: Geological Society of America Bulletin, doi:10.1130/B35338.1.

A51. Li, T., **Schoenbohm, L.M.,** Chen, J., Yuan, Z.-D., Feng. W.-P., Li, W.-Q., Xu, J.-H., Owen, L.A., Sobel, E.R., Zhang, B.-X., Zheng, W.-J., and Zhang, P.-Z., **2019**, Cumulative and coseismic (during the 2016 Mw 6.6 Aketao earthquake) deformation of the dextral-slip Muji Fault, northeastern Pamir orogen: Tectonics, v. 38 doi:10.1029/2019TC005680.

A50. \*McCarthy, J.A., **Schoenbohm, L.M.**, Bierman, P, Rood, D. and Hidy, A., **2019**, Late Quaternary Tectonics, Incision and Landscape Evolution of the Calchaquí River Catchment, Eastern Cordillera, NW Argentina: JGR Earth Surface, v. 124, doi:10.1029/2019JF005091.

A49. Costa, C., **Schoenbohm, L.M.,** Brooks, B., Gardini, C., and Richard, A., **2019**, Assessing Quaternary shortening rates at an Andean front thrust (32°30m), Argentina: Tectonics, doi:10.1029/2019TC005564.

A48. Imrecke, D., Robinson, A., Owen, L.A., Chen, J., **Schoenbohm. L.M.**, Hedrick K., Lapen, T., Li, W.-Q., and Yuan, Z.-D., **2019**, Mesozoic Evolution of the Eastern Pamir: Lithosphere, doi:10.130/L1017.1.

A47. \*Seagren, E.G., and **Schoenbohm, L.M.**, **2019**, Base Level and Lithologic Control of drainage Reorganization in the Sierra de las Planchadas, NW Argentina: Journal of Geophysical Research, Earth Surface, doi: 10.1029/2018JF004885.

A46. Wang, Y., Wang, P., Ge, W.-P., Zhou, R.-J., **Schoenbohm, L.M.**, Zhang, B., Zhang, J.-Z., Yuan, Z.-D., and Li, X.-F, **2019**, Differential crustal deformation across the Cona-Oiga rift, southern Tibetan Plateau: Journal of Asian Earth Sciences, v. 177, p. 177-185, doi: 10.1016/j.jseaes.2019.03.023.

A45. \*Rimando, J., **Schoenbohm, L.M.**, Costa, C.H., Owen, L.A., Cesta, J., Richard, A., and Gardini, C., **2019**, Late Quaternary Activity of the La Rinconada Fault Zone, San Juan, Argentina: Tectonics. doi:10.1029/2018TC005321.

A44. \*Wang, Y., Zhang, P.-Z., **Schoenbohm, L.M.**, Zheng, W.-J., Zhang, B., Zhang, J.-J., Zheng, D.-W., Zhou, R.-J., and Tian, Y.- T., **2018**, Two-phase exhumation along major shear zones in the SE Tibetan Plateau in the late Cenozoic: Tectonics, v. 37, p. 2675-2694, doi: 10.1029/2018TC004979.

A43. \*Wang, Y., **Schoenbohm, L.M.**, Zhang, B., Granger, D.E., Zhou, R.-J., Zhang, J.-J., Hou, J.-J., **2017**, Late Cenozoic landscape evolution along the Ailao Shan Shear Zone, SE Tibetan Plateau: Evidence from longitudinal profiles and cosmogenic erosion rates: Earth and Planetary Science Letters, v. 472, p. 323-333, doi: 10.1016/j.epsl.2017.05.030.

A42. Hedrick, K.A., Owen, L.A., Chen, J., Robinson, A., Yuan, Z.-D., Yang, X.-D., Imrecke, D.B., Li, W.-Q., Caffee, M.W., **Schoenbohm, L.M.**, Zhang, B.-X., **2017**, Quaternary history and landscape evolution of a high-altitude intermountain basin at the western end of the Himalayan-Tibetan orogen, Waqia Valley, Chinese Pamir: Geomorphology, v. 284, p. 156-174, doi: 10.1016/j.geomorph.2016.09.002.

A41. \*Zhou, R., **Schoenbohm, L.M.**, Sobel, E.R., Davis, D.W., and Glodny, J., **2016**, New constraints on orogenic models of the southern Central Andean Plateau: basin evolution and bedrock exhumation: GSA Bulletin, doi: 10.1130/B31384.1.

A40. \*Wang, Y., Zhang, B., **Schoenbohm, L.M.**, Zhang, J.-J., Zhou, R.J., Hou, J.-J., and Ai, S., **2016**, Late Cenozoic tectonic evolution of the Ailao Shan-Red River fault (SE Tibet): Implications for kinematic change during plateau growth: Tectonics, v. 35, p. 1969-1988, doi: 10.1002/2016TC004229.

A39. Carrapa, B., Robert, X., DeCelles, P.G., Orme, D., Thomson, S., and **Schoenbohm, L.M.**, **2016**, Asymmetric exhumation of the Mount Everest region: Implications for the tectono-topographic evolution of the Himalaya: Geology, v. 44, p. 611-614, doi: 10.1130/G37756.1.

A38. Robinson, A.C., Owen, L.A., Chen, J., **Schoenbohm, L.**, Hedrick, K.A., Blisniuk, K., Sharp, W., Imrecke, D.B., Li, W.-Q., Yuan, Z.-D., Caffee, M.W., and Mertz-Kraus, R., **2016**, Response to comment on “No late Quaternary motion on the northern Karakoram fault:” Earth and Planetary Science Letters, doi: 10.1016/j.epsl.2016.03.033.

A37. \*Zhou, R., **Schoenbohm, L.M.**, Sobel, E.R., Carrapa, B., and Davis, D.W., **2016**, Sedimentary record of regional deformation and dynamics of the thick-skinned southern Puna Plateau, central Andes (26-27°S): EPSL, v. 443, p. 220-223, doi:10.1016/j.epsl.2015.11.012.

A36. \*Higgins, M., **Schoenbohm, L.M.**, Brocard, G., Kaymakci, N., Gosse, J., and Cosca, M., **2015**, New kinematic and geochronologic evidence for the Quaternary evolution of the Central Anatolian Fault Zone (CAFZ): Tectonics: v. 34, p. 2118-2141, doi: 10.1002/2015TC003864.

A35. \*Zhou, R. and **Schoenbohm, L.M.**, **2015**, Late Miocene upper-crustal deformation within the interior of the southern Puna Plateau, central Andes: Lithosphere, v. 7, p. 336-352, doi:10.1130/L396.1.

A34. Robinson, A.C., Owen, L.A., Chen, J., **Schoenbohm, L.**, Hedrick, K.A., Blisniuk, K., Sharp, W., Imrecke, D.B., Yuan, Z.-D., Li, W.-Q., Caffee, M.W., and Mertz-Kraus, R., **2015**, No late Quaternary motion on the northern Karakoram fault: Earth and Planetary Science Letters, v. 209, p. 290-298.

A33. Murray, K.E., Ducea, M.N., **Schoenbohm, L.M.**, **2015**, Mafic lavas on the Puna plateau sample the diverse lithospheric architecture of the long-lived central Andean orogen: *in* DeCelles, P.G., Ducea, M.N., Carrapa, B., and Kapp, P.A., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: Geological Society of America Memoir 212, doi:10.1130/2015.1212(08).

A32. **Schoenbohm, L.M.,** and Carrapa, B., **2015**, Miocene-Pliocene shortening, extension and mafic magmatism support small-scale lithospheric foundering in the central Andes, NW Argentina: *in* DeCelles, P.G., Ducea, M.N., Carrapa, B., and Kapp, P.A., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: Geological Society of America Memoir 212, doi:10.1130/2015.1212(09).

A31. **Schoenbohm, L.M.**, Carrapa, B., \*McPherson, H., \*Pratt, J., Bywater, S., and Mortimer, E., **2015**,Climate and Tectonics along the southern margin of the Puna Plateau, NW Argentina: Origin of the Punaschotter Conglomerates: *in* DeCelles, P.G., Ducea, M.N., Carrapa, B., and Kapp, P.A., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: Geological Society of America Memoir 212, doi:10.1130/2015.1212(13).

A30. DeCelles, P.G., Zandt, G., Beck, S.L., Ducea, M.N., Kapp, P., Gehrels, G.E., Carrapa, B., Quade, J., **Schoenbohm, L.M.**, **2015**, Cyclical orogenic processes in the Cenozoic central Andes: *in* DeCelles, P.G., Ducea, M.N., Carrapa, B., and Kapp, P.A., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: Geological Society of America Memoir 212, doi:10.1130/2015.1212(22).

A29. Carrapa, B., Mustapha, F.S., Cosca, M., Gehrels, G., **Schoenbohm, L.M.**, Sobel, E.R., DeCelles, P.G., Russell, J., and Goodman, P., **2014**, Multisystem dating of modern river detritus from Tajikistan and China: Implications for crustal evolution and exhumation of the Pamir, Lithosphere doi: 10.1130/L360.1.

A28. **Schoenbohm, L.**, Chen J., \*Stutz, J., Sobel, E.R., Thiede, R.C., \*Kirby, B., and Strecker, M.R., **2014**, Glacial morphology in the Chinese Pamir: connections among climate, erosion, topography, lithology and exhumation: Geomorphology, v. 221, p. 1-17, 10.1016/j.geomorph.2014.05.023.

A27. Carrapa, B., Huntington, K.W., Clementz, M., Quade, J., Bywater-Reyes, S., **Schoenbohm, L.M.**,andCanavan, R., **2014**, Uplift of the Central Andes of NW Argentina associated with upper crustal shortening revealed by multi-proxy isotopic analyses: Tectonics, v. 33, 10.1002/2013TC003461.

A26. Canavan, R., Carrapa, B., Clementz, M.T., Quade, J., DeCelles, P., and **Schoenbohm, L.**, **2014**, Early Cenozoic uplift of the Puna Plateau, Central Andes, based on stable isotope paleoaltimetry of hydrated volcanic glass: Geology, doi:10.1130/G35239.1.

A25. Carrapa, B., Reyes-Bywater, S., Safipour, R. Sobel, E.R., **Schoenbohm, L.**, Reiners, P. and Stockli, D., **2014**, The effect of inherited Cretaceous paleotopography on exhumation of the Central Andes of NW Argentina: GSA Bulletin, v. 126(1/2), p. 66-77.

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1. BOOKS AND PEER REVIEWED BOOK CHAPTERS (underlining indicates senior author)

B4. **Schoenbohm, L.M., 2022,** Tectonic Geomorphology of Continental Collision Zones, in: Schroder, J., (Editor in Chief), Treatise on Geomorphology, Second Edition, Elsevier, Academic Press, San Diego, CA, vol. 2 p. 120-149.

B3. **Schoenbohm, L.M., 2013,** Continental-continental collision zone. In: Schroder, J., (Editor in Chief), Owen, L.A., (Volume Editor), Treatise on Geomorphology. Academic Press, San Diego, CA, vol. 5, Tectonic Geomorphology, p. 13-36.

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C. BOOKS EDITED

none

## 8. NON-REFEREED PUBLICATIONS

none

## 9. MANUSCRIPTS IN PREPARATION OR SUBMITTED

(\* indicates student or postdoc under my supervision at the time the work was undertaken, underlining indicates senior author)

C1. \*Luo, Q., **Schoenbohm, L.M.**, Rimando, J., Li, Y., Li., C., Xiong, J., **in press**, Morphotectonic analysis of the North Liuleng Shan Fault in the northern Shanxi Graben System, China: Insights into active deformation pattern and fault evolution: Geomorphology.

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C3. \*Jess, S., Heer, H., **Schoenbohm, L.M.**, **submitted**, Social Disparities in Academic Geoscience: Results from a Survey of the ‘Great White North’: Nature Geoscience.

## 10. PAPERS PRESENTED AT MEETINGS AND SYMPOSIA

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D148. Gencoglu Korkmaz, G., Schmitt, A.K., Harvey, J.C., Danisik, M., and Schoenbohm, L.M., 2024, Spatial and Temporal Variability of Slip Rates on the Tuz Gölü Fault Zone: Insights from Zircon Double Dating of Offset Lavas of Mount Hasan, Central Anatolia: Geophysical Research Abstracts, v. 24, EGU2024-XXXXX.

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D146. \*Barcelos Haag, M., **Schoenbohm, L.M.**, Jess, S., Augusto Sommer, C., Endrizzi, G., 2024, Lithological influence on bedrock incision and transience: Insights from the Aparados da Serra Escarpment, southeast Brazil: Geophysical Research Abstracts, v. 24, EGU2024-XXXXX.

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D143. \*Jess, S., **Schoenbohm, L.M.**, Enkelmann, E., **2023**, Sediment transport during glacier retreat: Apatite double dating and chemistry provenance, Thermo2023.

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D141. \*Wolpert, J., **Schoenbohm, L.M.**, DeCelles, P.G., Quade, J., **2022**, Exploring tectonic, climatic, and substrate influences on topography in the Ghaghara watershed, western Nepal: Eos Transactions American Geophysical Union, v. 103, Fall Meet. Suppl. Abstracts.

D140. Godin, L., \*Crilly, B., **Schoenbohm, L.M.**, **2022**, Recent basement fault reactivation and fluvial drainage modification in an intraplate setting, eastern Bundelkhand craton, Madya Pradesh, India: Eos Transactions American Geophysical Union, v. 103, Fall Meet. Suppl. Abstracts.

D140. \*Tye, A., McMillan, M., **Schoenbohm, L.M.**, **2022**, Lithospheric foundering recorded by the complex Miocene to Quaternary tectonic evolution of the southern Puna plateau, Argentina: Geological Society of America Abstracts with Programs, v. 54, no. 7, Abstract ID# XXXXXXX.

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D136. **Schoenbohm, L.M.**, \*Giona Bucci, M., \*McMillan, M., \*Seagren, E., \*Tye, A., \*Wolpert, J., **2020**, Wind, Water, Ice & Faults: How Erosion Interacts with Tectonics to Shape the Landscape: CTG Annual Meeting, November 20-21, 2020.

D135. \*Tye, A., \*McMillan, M., and **Schoenbohm, L.M.**, **2020**, Formation of the Salar de Antofalla depression, Puna Plateau, Argentina by transient extension: an effect of mantle lithosphere foundering: CTG Annual Meeting, November 20-21, 2020.

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D128. **\***Dortch, J., Saha, S., Tomkins, M.D., Murari, M.K., Liebig, J., **Schoenbohm, L.M.**, Curl, D., **2019**, Probability-based interpretation of terrestrial cosmogenic radionuclide ages: P-CAAT, a tool for the ages: Eos Transactions American Geophysical Union, v. 100, Fall Meet. Suppl. Abstract EP31D-2325.

D127. **\***McMillan, M. and **Schoenbohm, L.M.**, **2019**, Deciphering a Large-Scale, Wind-Dominated Landscape in the Central Andes: Aeolian Topography in the Salina del Fraile Depression, Southern Puna Plateau: Eos Transactions American Geophysical Union, v. 100, Fall Meet. Suppl. Abstract EP23C-2270.

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D123. **\***Seagren, E.G., **Schoenbohm, L.M.**, Owen, L.A., Figueiredo, P., Hammer, S., \*Rimando, J.M., \*Wang, Y., and \*Bohon, W., **2019**, Controls on 10Be-derived basin-wide erosion rates in the south-central Andes: a multivariate Bayesian approach: Eos Transactions American Geophysical Union, v. 100, Fall Meet. Suppl. Abstract EP31C-2272.

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D120.\*Crisostomo, E. and **Schoenbohm., L.M.**, **2019**, Exploring the Interaction of Climate, Tectonics, and Glaciers in the Gurla Mandhata Region, Northwest Nepal: 18th Annual AESRC Spring Meeting, March 29-31, 2019.

D119.\*Buceta, R. and **Schoenbohm., L.M.**, **2019**, Glaciers as Insight into the Creation and Excavation of the Dolpo Basin, Western Nepal: 18th Annual AESRC Spring Meeting, March 29-31, 2018.

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D117. **\***Wang, Y., Zhang, P.-Z., **Schoenbohm, L.M.**, Zehng, W.-J., Zhang, B., Zhang, J.-J., Zhang, D.-W., Zhou, R.-J., and Tian, Y.T., **2018**, Late Cenozoic exhumation history of the Gaoligong and Chongshan shear zones (SE Tibet): Eos Transactions American Geophysical Union, v. 99, Fall Meet. Suppl. Abstract T23B-0353.

D116. **\***Rimando, J., **Schoenbohm, L.M.**, Costa, C., Owen, L.A., Cesta, J., and Richard, A., **2018**, Late Quaternary Activity of the La Rinconada Fault Zone, San Juan, Argentina: Geophysical Research Abstracts, v. 18, EGU2018-11697.

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D108.\*Wang, Y., **Schoenbohm**, L.,, Zhang, B., Granger, D., Zhou, R., Zhang, J., Hou, J., **2017**, River Longitudinal Profiles and Basin-wide Erosion Rates along the Ailao Shan Shear Zone, SE Tibetan Plateau: Asia Oceania Geosciences Society 14th Annual Meeting, Singapore, August 2017, SE04-A022.

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D101.Chen, J., **Schoenbohm, L.M.**, Owen, L.A., Li, W., Yuan., Z., Li, T., Robinson, A.C., Sobel, E.R., and Caffee, M.W., **2016**, Late Quaternary Arc-parallel Extension of the Kongur Extensional System (KES), Chinese Pamir: Eos Transactions American Geophysical Union, v. 97, Fall Meet. Suppl. Abstract T11A-2585.

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D8. **Schoenbohm, L.**, Kurz, M., Ackert, R., Brook, E., Brown, E., **2004**, Erosion history from cosmogenic 10Be, 26Al, 3He and 21Ne depth profiles: Dry Valleys, Antarctica. European Geosciences Union 1st General Assembly, April 25-30, 2005, Nice, France.

D7. **Schoenbohm, L**., Burchfiel, B.C., Chen Liangzhong, **2003**, New constraints on exhumation of the Ailao Shan shear zone from Tertiary sediments, Yunnan Province, China: Geological Society of America Abstracts with Programs, v. 35, no. 7, Paper No. 182-9.

D6. **Schoenbohm, L.**, Burchfiel, B.C., Chen Liangzhong, Clark, M., Royden, L., Whipple, K., **2003**, Pliocene uplift, river incision and faulting in the Red River region, Yunnan Province, China: European Geological Society-American Geophysical Union-European Geophysical Union Joint Assembly, 2003 Spring Meeting.

D5. **Schoenbohm, L.**, Whipple, K., Burchfiel, B.C., Chen L.-Z., **2003**, River incision and plateau growth in the Red River region, Yunnan Province, China: 18th Himalaya-Karakoram-Tibet Workshop, Monte Verita, Swithzerland, April 2-4, 2003, p. 106.

D4. **Schoenbohm, L.**, Whipple, K., Burchfiel, B.C., Chen L.-Z., **2002**, River incision along the Red River, Yunnan Province, China: a Transient Response to Regional Surface Uplift: Eos Transactions American Geophysical Union, v. 83(47), Fall Meet. Suppl., Abstract T72B-07.

D3. **Schoenbohm, L.**, Whipple, K., Burchfiel, B.C., **2001**, Recent deformation along the Red River fault as constrained by river incision into a low relief relict landscape, Yunnan, China: Geological Society of America Abstracts with Programs, v. 33:6, A-258.

D2. **Schoenbohm, L**., Kurz, M., Ackert, R., Brown, E.T., Brook, E.J., **2000**, The production attenuation length of Cosmogenic 21Ne and 3He in Antarctic sandstone bedrock cores: Eos Transactions American Geophysical Union, v. 81(48), Fall Meet. Suppl., Abstract U21A-20.

D1. **Schoenbohm, L.**, and Beutner, E., **1997**, Footwall deformation associated with the Heart Mountain detachment, NW Wyoming: Geological Society of America Abstracts with Programs, v. 29, no. 1, p. 77.

## 11. INVITED LECTURES

• Gordon Research Conference – Geochronology, August 13-18, 2023, ***Invited Speaker***

• Canadian Tectonics Group 2021-22 Seminar Series, February 22, 2022

• University of Calgary, March 14, 2019

• Rochester University, January 31, 2014

• Dalhousie University, November 10, 2011

• University of Arizona, October 6, 2011

• McGill University, February 11, 2011

• University of Washington, October 14, 2010

• Colorado College, January 28 and 29, 2010, ***Parker Distinguished Visitor***

• University of Toronto at Mississauga, November 13, 2009

• MacMaster University, February 21, 2009

• University of Toronto, January 9, 2009

• Indiana University Purdue University, January 24, 2008

• Miami University, October 15, 2007

• University of Akron, February 23, 2007

• Cornell University, February 5, 2007

• Virginia Tech, January 19, 2007

• Bowling Green University, November 9, 2006

• University of Houston, October 27, 2006

• **INQUA workshop invited speaker** on Timing and Nature of Mountain Glaciation, Xining and the Tibetan Plateau, China, 14-22 Sept.: *Climate-Tectonic interactions and Landscape Dynamics on the margins of Continental Plateaus: Examples from the Andes and Tibet*

• Indiana University, April 24, 2006

• Case Western Reserve University, February 23, 2006

• University of Cincinnati, February 10, 2006

• Ohio University, January 27, 2006

• Oberlin College, November 17, 2005

• University of California, Davis, May 3, 2004.

• Ohio State University, April 20, 2004.

• Kansas University, March 11, 2004.

• University of California, Davis, May 4, 2004.

• Ohio State University, April 19, 2004.

# D. LIST OF COURSES

## 12. A. UNDERGRADUATE COURSES TAUGHT

1. **ERS101H5: Planet Earth** (formerly ERS120H5)

* Course responsibility: Full responsibility for course design
* Taught: Winter 2011, 2012, 2014, 2015, 2017, 2018
* Text Book: Marshak (2016) Essentials of Geology, 5thEdition
* Learning Outcomes: By the end of the course, students should be able to:
* Describe the structure of the surface and interior of the earth, including layer thickness, properties, and significance in supporting plate tectonics.
* Use plate tectonic theory to explain the large-scale motion of the Earth’s lithosphere and the geologic features found at plate boundaries.
* Apply plate tectonic theory to interpret geologic processes and the rock record.
* Identify basic rock forming minerals and common igneous, sedimentary and metamorphic rocks.
* Relate the properties of a mineral to its composition and structure.
* Describe how rocks form, change, and re-form through geologic processes.
* Interpret past geologic events using the rock record.
* Know the age of the Earth and the timing and significance of important time periods in Earth’s history.
* Apply the principles of relative and absolute dating to interpret a sequence of geologic events.
* Describe the geological processes that form or concentrate mineral, petroleum and water resources.
* Evaluate the benefits and costs of methods for extracting Earth’s resources.
* Describe the geological processes that generate hazardous conditions, including volcanos, earthquakes, landslides, and floods.
* Evaluate the risks and predictability of hazards, and therefore appropriate steps for mitigation.
* Use repeatable observations and testable ideas to understand and explain Earth processes.
* Assess uncertainty in observations and interpretations.
* Improve 3- and 4-dimensional thinking and visualization skills.

- Assessment:

* Participation 5%
* Practicals (4% each x 10 exercises) 40%
* Term Test 20%
* Final Exam 35%

2. **ERS202H5: Dynamic Earth**

- Course responsibility: Full responsibility for course design

- Taught: Winter 2010, 2011, 2012, 2014, 2015, 2017, 2018, 2019

- Text Book: Processes in Structural Geology and Tectonics, van der Pluijm and Marshak, e-version

- Learning Outcomes: By the end of the course, students should be able to:

* Define and describe the interrelationships among force and stress, deformation and strain, and brittle and ductile deformation.
* Describe rock structures with proper terminology.
* Describe the characteristic deformation associated with different plate tectonic settings.
* Interpret geologic maps and construct basic geologic cross-sections.
* Evaluate stress and strain in structures seen in hand sample, in the field, and on geologic maps, and analyze how they formed.
* Synthesize lithologic and structural data to interpret the structural history, regional geologic, and plate tectonic setting of an area.
* Develop critical thinking and problem solving skills.
* Improve 3- and 4-dimensional thinking and visualization skills.

- Assessment:

* Quizzes (unannounced) 10%
* Labs (4% each x 10 labs) 40%
* Term Test 20%
* Final Exam 30%

3. **ERS302H5: Tectonics**

- Course responsibility: Full responsibility for course design

- Taught: Winter 2019, Fall 2020, Fall 2022

- Text Book: Global Tectonics, Kearey, Klepeis, and Vine, 3rd Edition

- Learning Outcomes: By the end of the course, students should be able to:

* Define the key components/layers of the solid earth and their characteristics (oceanic crust/lithosphere, continental crust/lithosphere, asthenosphere, mantle, core, hotspots)
* Explain the application of geophysics (paleomagnetism, seismology, flexure, isostasy, numerical and analogue modeling) to understanding the plate tectonic system
* Explain how absolute and relative plate velocities are measured and determine the nature of plate boundary interactions (on a sphere)
* Describe the key features of plate tectonics settings, including mid ocean ridges, passive margins, continental rifts, transform faults, subduction zones, and Andean, Cordilleran, Collisional orogens, and cratons
* Explain the formation and key features of sedimentary basins (back-arc, fore-arc, foreland) in the tectonic system
* Explain how climate and tectonics interact (locally and over geologic time)
* Describe changes in plate tectonics over time including growth of continental lithosphere, the onset of modern-style plate tectonics, and the Wilson supercontinent cycle
* Understand ways in which tectonics affects societies, including resources, and earthquake and volcanic hazards
* Synthesize lithologic, structural, and geophysical data to interpret the tectonic history and setting of an area.
* Conceptualize spatial data (mental rotation)
* Conceptualize temporal geologic change
* Integrate complex concepts across multiple subjects
* Develop problem solving skills
* Read and discuss scientific literature
* Develop scientific oral and written communication skills
* Practice working in groups

- Assessment:

Readings 30%

Reading Quiz 3%

Assignments (best 8 out of 10, 3% each) 24% McKenzie and Morgan, 1969

Hotspot Debate, 2003

van der Meer et al., 2018

Aragon-Arreola and Martin-Baraja, 2007

Tapponnier et al., 1982

Lamb and Davis, 2003

Butler et al., 2001

Beaumont et al., 2001

Condie and Kroner, 2008

Ouimet, 2010

Advice Paper 3%

Problem Sets (6 exercises, best 5 of 6, 6% each) 30%

Problem Set 1: Isostasy

Problem Set 2: Plate Motion

Problem Set 3: Lithospheric Flexure

Problem Set 4: Subduction Angle

Problem Set 5: Critical Taper

Problem Set 6: Synthesis

World Building Project 40%

Team Contract 2%

Project set-up 2%

World “Story” 1%

Tectonic Map and Report 5%

Legend 2%

Ocean Floor 4%

Geologic Map and Report 12%

Physiographic Map 2%

Presentation 4%

Individual Assessment (3x/semester, 2% each) 6%

4. **ERS402H5: Advanced Structural Geology**

- Course responsibility: Full responsibility for course design

- Taught: Winter 2020, Fall 2021

- Recommended Text Books:

* Condie, 2003, Plate Tectonics and Crustal Evolution
* Davis, Reynolds & Kluth, 2011, Structural Geology of Rocks and Regions, 3rd edition (QE601 .D3 2012)
* Fossan, 2010, Structural Geology (QE601 .F687 2016)
* Hills, 1963, Elements of Structural Geology
* Passchier and Trouw, 2005, Microtectonics (QE440 .P38 2005)
* Ramsay, 1967, Folding and Fracturing of Rocks
* Twiss & Moores, 2007, Structural Geology, 2nd edition (QE601 .T894 2007)
* van der Pluijm and Marshak, 2016, Processes in Structural Geology and Tectonics, (http://psgt.earth.lsa.umich.edu/)
* Mukherjee, S., 2015, Atlas of structural geology: Amsterdam, Elsevier, 165 p. (https://www-sciencedirect-com.myaccess.library.utoronto.ca/book/9780124201521/atlas-of-structural-geology)
* Passchier, C., and Trouw, 2005, Microtectonics: Berlin, Springer, 336 p. (https://ebookcentral-proquest-com.myaccess.library.utoronto.ca/lib/utoronto/detail.action?docID=3062385)
* Ragan, D., 2009, Structural geology: an introduction to geometrical techniques: New York, Cambridge University Press (https://www-cambridge-org.myaccess.library.utoronto.ca/core/books/structural-geology/4D631885C9FBBCDEF90C555445ED1160)

- Learning Outcomes: By the end of the course, students should be able to:

* Extract information from geologic maps, including construction of balanced cross-sections.
* Interpret structural data using stereonets, Mohr’s circle, and paleostress analysis.
* Describe the interrelationships among force, stress, deformation, strain, and rheology.
* Interpret strain from deformed objects at thin-section, hand sample, outcrop, and map scale.
* Apply basic numerical and analog modeling to problems in structural geology.
* Synthesize structural data to interpret the structural history and the regional geologic and plate tectonic setting of an area.
* Improve spatial thinking skills.
* Improve scientific oral and written communication skills.
* Learn geological software, including Stereonet 10; GMDE (map interpretation); Agisoft (Structure from Motion); and T-Tecto (paleostress analysis). Some students may elect to learn MOVE (balanced cross sections).

- Assessment:

* 8 individual or group Labs 50%
* In-class activities 12%
* Portfolios 18%
* Map Project 20%

5. **ERS425H5: Geology of North America**

- Course responsibility: Joint responsibility for course design with co-instructor J. Halfar

- Taught: Fall 2018, Fall 2019, Fall 2022

- Schedule:

* Day 1: Dinosaur Provincial Park
* Day 2: Front Ranges structure
* Day 3: Front Ranges stratigraphy
* Day 4: Icefields Parkway
* Day 5: Transition zone
* Day 6: Porcupine Anticlinorium, Windermere Supergroup
* Day 7: Selkirk Fan, Monashee-Shuswap Complex

- Assessment:

* Handout 20%
* Presentation 20%
* Field Exercises 30%
* Final Report 30%

6. **ERS399Y5: Research Opportunity Program**

- Course responsibility: Full responsibility for course design and student supervision

- Taught: 2010-11, 2011-12, 2014-15, 2017-18, 2018-19, Summer 2019, Summer 2020, 2021-22, 2022-23

- Assessment:

* Weekly Progress Report 5%
* Background 15%
* Methods and Results 15%
* Introduction 15%
* Final Report 25%
* Final Presentation 25%

7. **ERS470Y5: Research Thesis**

- Course responsibility: Full responsibility for course design and student supervision

- Taught: 2011-12, 2016-17, 2017-18, 2018-19

- Assessment:

* Weekly Progress Report 5%
* Background 15%
* Methods and Results 15%
* Introduction 15%
* Final Report 25%
* Final Presentation 25%

## 12. B. GRADUATE COURSES TAUGHT

1. **ESS2222: Tectonics and Planetary Dynamics** (formerly GLG2222)

- Course responsibility: Full responsibility for course design and student supervision in recent iterations of course

- Taught: Fall 2010 (co-taught), Fall 2013, Fall 2017

- Text book: Tectonic Geomorphology, Burbank and Anderson, 2011

- Course outline: This course will focus on understanding and quantifying tectonic deformation in active orogens. We’ll cover a range of time scales, from years (geodetic), to thousands of years (geomorphic) to millions of years (geologic). We’ll also explore typical geomorphic features of deformation in a variety of tectonic settings. Finally, we’ll discuss geochronologic techniques including C‐14 dating, optically stimulated luminescence, Useries, cosmogenic nuclide dating and both bedrock and detrital thermochronology.

- Assessment:

* Project 1 20%
* Project 2 20%
* Project 3 20%
* Paper Discussions 10%
* Mini-Lecture 30%

## 12. C. THESES SUPERVISED

#### Postdoctoral Fellows:

5. **Scott Jess** (complete)

- Primary Supervisor

- November 2021-August 2023

- University of Toronto

- Research topic: Deep-seated extension and contraction in the central Andes

4. **Alexander Tye** (complete)

- Primary Supervisor

- January-December 2020

- University of Toronto

- Research topic: Deep-seated extension and contraction in the central Andes

***- Publications: A65***

3. **Monica Giona Bucci** (complete)

- Primary Supervisor

- September 2019-December 2020

- Deane Postdoctoral Fellow, University of Toronto

- Research topic: Neotectonics of the Temiskaming Graben, Ontario and Quebec

***- Publications: A68***

***- Awards: Deane Fellowship***

2. **Jason Dortch** (complete)

- Primary Supervisor

- August 2010-August 2012

- University of Toronto

- Research topic: Extensional faulting and geomorphic development of the Antofalla basin, Puna Plateau, NW Argentina

***- Publications: A16, A66***

1. **Rasmus Thiede** (complete)

- Primary Supervisor

- 6 month appointment, spring 2005

- University of Potsdam

- Research topic: Apatite Fission-track thermochronology and the exhumation of the Chinese Pamir

***- Publications: A23***

#### Doctoral Students:

9. **Quanxing Luo** (in progress)

- Supervisor during 1-year visit, 2022-23

- PhD, expected 2024, Peking University

- Thesis topic: Structural and Landscape Evolution of the Shangxi Graben, China

***- Publications: A70, C3***

8. **Himani Yadav** (in progress)

- Primary Supervisor

- PhD, expected August 2026, University of Toronto

- Thesis topic: Landscape Evolution of the Canadian Rockies

7. **Mauricio Barcelos-Haag** (in progress)

- Primary Supervisor

- PhD, expected August 2025, University of Toronto

- Thesis topic: Drainage Reorganization and Scarp Retreat in an LIP, Brazil

- ***Awards: Geological Society London Research Grant (£1,698), Calgary Geo- and Thermochronology Lab Grant (CAD 10,000)***

6. **Joshua Wolpert** (in progress)

- Primary Supervisor

- PhD, expected August 2024, University of Toronto

- Thesis topic: Erosion and Landscape Evolution in Western Nepal

- ***Awards: PRIME Lab SEED Grant (USD 13,738)***

5. **Mitchell McMillan** (complete)

- Primary Supervisor

- PhD, April 2022, University of Toronto

- Thesis topic: Construction of Orogenic Plateaus: Geomorphology and Geodynamics of the Puna Plateau, Central Andes

- Current position: Postdoctoral Fellow, University of Georgia

***- Publications: A56, A67, A71, C2***

***- Awards: Trillium Scholarship, CPS Best Paper Award***

4. **Erin Seagren** (complete)

- Primary Supervisor

- PhD, April 2021, University of Toronto

- Thesis topic: Erosion and Drainage Evolution in and along the Margin of the Southern Puna Plateau, NW Argentina

- Current position: Postdoctoral Fellow, Simon Fraser University

***- Publications: A64, A62, A57, A47***

***- Awards: CPS Best Paper Award***

3. **Jeremy Rimando** (complete)

- Primary Supervisor

- PhD, November, 2019, University of Toronto

- Thesis topic: Quaternary Deformation within the Pampean Flat Slab Segment of the Central Andes of Argentina from 30-32°S

- Current position: Analyst, Geological Survey of Canada and Postdoctoral Fellow, McMaster University

***- Publications: A53, A45, A62***

***- Awards: 2021 Dave Elliott Best Paper in Structural Geology and Tectonics – Canadian Tectonics Group***

2. **Yang Wang** (complete)

- Supervisor during 1-year visit, 2016-2017

- PhD, December 2017, Peking University

- Thesis topic: Exhumation and Structural and Landscape Evolution of the Southeast Margin of the Tibetan Plateau

- Current position: Associate Professor, Sun Yat-Sen University

***- Publications: A44, A43, A40***

1. **Renjie Zhou** (complete)

- Primary Supervisor

- PhD, September 2015, University of Toronto

- Thesis topic: Dynamic Processes of the Southern Puna Plateau, Central Andes

- Current position: Senior Lecturer, Queensland University

***- Publications: A41, A37, A35***

***- Awards: DAAD Scholarship, GAS Graduate Research Grant, Sigma Xi Grant***

#### Masters Students:

10. **Evelyn Moorhouse** (complete)

- Primary Supervisor

- MSc, December 2018, University of Toronto

- Thesis topic: Miocene-Pliocene deformation and deposition in the Fiambalá basin, NW Argentina: Implications for local and regional kinematic evolution

9. **Neil Krystopowicz** (complete)

- Primary Supervisor

- MASc, December 2014, University of Toronto

- Thesis topic: Constraining deformation, uplift, and activity along the Tuz Golu fault zone, Central Anatolia, Turkey

***- Publications: A55***

8. **Mark Higgins** (complete)

- Primary Supervisor

- MASc, August 2014, University of Toronto

- Thesis topic: New Kinematic and Geochronologic Evidence for the Quaternary Evolution of the Central Anatolian Fault Zone (CAFZ)

***- Publications: A36***

7. **James McCarthy** (complete)

- Primary Supervisor

- MASc, June 2014, University of Toronto

- Thesis topic: Late Quaternary Tectonism, Incision and Landscape Evolution of the Calchquí River Catchment, Eastern Cordillera, NW Argentina

***- Publications: A50***

***- Awards: Connaught Fellowship***

6. **Renjie Zhou** (complete)

- Primary Supervisor

- MSc, July 2011, University of Toronto

- Thesis topic: Extensional structures in the Pasto Ventura Basin, NW Argentina: geodynamic implications for the southern margin of the Puna Plateau

***- Publications: A20***

5. **Andisheh Beiki-Ardakani** (complete)

- Co-Supervisor (with Russell Pysklywec)

- MSc, October 2010, University of Toronto

- Thesis topic: Surface topographic response to lithospheric instabilities beneath the central Andean Plateau

4. **Peter Enderlin** (complete)

- Primary Supervisor

- MSc, March 2010, Ohio State University

- Thesis topic: The surface/subsurface relationship between drainage and buried faults as observed in the Andean Foreland of Central-Western Argentina

3. **Wendy Bohon** (complete)

- Primary Supervisor

- MSc, June 2008, Ohio State University

- Thesis topic: Geomorphic and fluvial analysis of a fault propagation fold, Montecito anticline, Mendoza, Argentina

2. **Benjamin Kirby** (complete)

- Primary Supervisor

- MSc, May 2008, Ohio State University

- Thesis topic: Surface exposure dating of stream terraces in the Chinese Pamir: Glacial chronology and paleoclimatic implication

1. **Heather McPherson** (complete)

- Primary Supervisor

- MSc, May 2008, Ohio State University

- Thesis topic: Climate and tectonic controls on sedimentation and deformation in the Fiambalá basin of the southern Puna Plateau, Northwest Argentina

#### Committee Member:

Sheila Ballantyne, PhD candidate, University of Toronto (Melissa Anderson)

David Summer, PhD candidate, University of Toronto (Melissa Anderson)

Octavio Acuna-Avendano, PhD candidate, University of Toronto (Melissa Anderson)

Zhenhao Zhou, PhD candidate, University of Toronto (Xu Chu)

Katie Maloney, PhD 2021, University of Toronto (Marc Laflamme)

Erkan Gun, PhD, 2021, University of Toronto (Russell Pysklywec)

Rob Gray, PhD, April 2013, University of Toronto (Russell Pysklywec)

Hao Zhou, PhD, February 2008, Ohio State University (Mike Bevis)

Mike Willis, PhD, December 2007, Ohio State University (Mike Bevi

Beth Demyanick, MS, September 2006, Ohio State University (Terry Wilson)

#### Internal Examiner:

Ivano Gennaro, MSc, August, 2020, University of Toronto (Xu Chu)

Vasa Lukich, PhD, April 2019, University of Toronto (Sharon Cowling)

Gerard Otiniano, MSc, September, 2018, University of Toronto (Trevor Porter)

Alex Cebulski, MSc, May, 2018, University of Toronto (Joe Desloges)

April Dalton, PhD, August 2017, University of Toronto (Sarah Finkelstein)

Katie Maloney, MSc, August 2017, University of Toronto (Marc Laflamme)

Kirsten Kennedy, PhD, May 2017, University of Toronto (Nick Eyles)

Allison Enright, MSc, August 2011, University of Toronto (Russell Pysklywec)

James Siddorn, PhD, October 2010, University of Toronto (Sandy Cruden)

#### External Examiner:

Joel Padgett, PhD candidate, Calgary University (Eva Enkelmann)

Cho-Hee Lee, MSc, May 2020, Korea University (Yeong Bae Seong)

Trevor Mearce, MSc, November 2017, University of Victoria (Kristin Morrell)

Kate Hedrick, PhD, December 2015, University of Cincinnati (Lewis Owen)

Heidi Daxberger, PhD, September 2013, McMaster University, (Ulrich Riller)

Keith Hodson, MSc, August 2011, McGill University, (Sarah Hall)

Jason Dortch, PhD, 2009, University of Cincinnati (Lewis Owen)

#### Undergraduate Thesis Students:

9. **Ariam Afwerki** (complete)

- Primary Supervisor

- BSc, April 2019, University of Toronto Mississauga

- Thesis topic: Relative Tectonic Activity of the West Panay Fault System, Central Philippines

8. **Rhys Buceta** (complete)

- Primary Supervisor

- ***NSERC USRA***, August 2018, University of Toronto Mississauga

- Thesis topic: Glacial and Fluvial Erosion in the Dolpo Basin, Western Nepal.

***- Publications: A54***

***- Dean’s Excellence Award 2018-19***

7. **Mihailo Dzekic** (complete)

- Primary Supervisor

- BSc, April 2018, University of Toronto Mississauga

- Thesis topic: Mechanisms for the formation of high-elevation, low-relief landscapes in the southern and southeastern Tibetan Plateau

6. **Evelyn Moorhouse** (complete)

- Primary Supervisor

- BSc, April 2017, University of Toronto Mississauga

- ***NSERC USRA***, August 2017, University of Toronto Mississauga

- Thesis topic: Fold Segment Linkage and Uplift Rates along the Janauri and Chandigarh Anticlines, Northwestern India

5. **Michael Martins** (complete)

- Primary Supervisor

- BSc, April 2013, University of Toronto Mississauga

- Thesis topic: Nyainqentanglha Glaciation: Coupling between climate, tectonics, and landscape morphology

4. **John Patrick Calhoun** (complete)

- Primary Supervisor

- BS, March 2010, Ohio State University

- Thesis topic: Morphology and alignment of volcanic vents: Puna Plateau, NW Argentina

3. **Jonathon Pratt** (complete)

- Primary Supervisor

- BS, December 2008, Ohio State University.

- Thesis topic: Basin Compartmentalization in the Sierra Pampeanas of Northwestern Argentina: Case-study of the El Cajón

2. **Jamey Stutz** (complete)

- Primary Supervisor

- BS, June 2008, Ohio State University

- Thesis topic: Climatic and Tectonic controls on ELA and Glacial Characteristics in the King Ata Tagh Range, Western China: Testing the Glacial Buzzsaw hypothesis

1. **Hendrik Wulf** (complete)

- Primary Supervisor

- Diploma, September 2006, University of Potsdam

- Thesis topic: Analysis of large-scale Quaternary landslide deposits: El Cajon basin, south-eastern Puna margin, NW Argentina

#### Undergraduate ROP (Research Opportunity Program) Students:

18. **Amelie Lo** (complete)

- Co-Supervision with Mauricio Haag

- 2022-23

- Topic: Climate and Litholologic, and Topographic Controls on Landslide Distribution and Hazards, Southern Brazil Escarpment

17. **Zara Zaman** (complete)

- Co-Supervision with Scott Jess

- 2022-23

- Topic: Landscape Evolution and Passage of a Spreading Ridge Under a Passive Margin: Golfo San Jorge, Patagonia

16. **Daniela Lozano** (complete)

- Co-Supervision with Josh Wolpert

- 2021-22

- Topic: Mathematical Modeling of Glacier Area and Distribution within the Central Himalaya

15. **Aneila Ghanie** (complete)

- Co-Supervision with Alex Tye

- Summer 2020

- Topic: Constraints on Geometry of thick-skinned faulting from distribution of Low relief surface in Sierra Pampeanas, Argentina

14. **Benjamin Scher** (complete)

- Co-Supervision with Sheila Ballantyne

- Summer 2019

- Topic: Visualizing structural geology - fold-thrust belts

13. **Myia Hellmer** (complete)

- Co-Supervision with Sheila Ballantyne

- Summer 2019

- Topic: Visualizing Structural Geology - block models

12. **Tasha Skelhorn** (complete)

- Primary Supervision

- 2018-19

- Topic: Climatic and tectonic influences on glacial morphology in Bhutan, Himalaya

11. **Noah Bacal** (complete)

- Primary Supervision

- 2018-19

- Topic: Decoupling climatic & tectonic controls on glacier formation in the Western Himalaya, Nepal

10. **Edward Crisostomo** (complete)

- Primary Supervision

- 2018-19

- Topic: Exploring the interaction of climate, tectonics and glaciers in the Gurla Mandhata region, northwest Nepal

9. **Emile Sabeti-Mehr** (complete)

- Primary Supervision

- 2017-18

- Topic: Teaching the geologic timescale

8. **Aditya Sripathi**(complete)

- Primary Supervision

- 2017-18

- Topic: Petra: A rock geocaching app

7. **Rhys Buceta** (complete)

- Primary Supervision

- 2017-18

- Topic: A landscape evolution model for Western Nepal: Evidence or northward migration of the Himalayas

6. **Justyna Strzelczyk** (complete)

- Primary Supervision

- 2014-15

- Topic: Headward erosion of Himalayan glaciers an its link to climate, lithology and tectonics

5. **Joey Vrzovski** (complete)

- Primary Supervision

- 2014-15

- Topic: Evaluation of the accuracy of ELA calculation methods: application to the Mt. Everest region of the Himalayas

4. **Azima Ihsan** (complete)

- Primary Supervision

- 2011-12

- Topic: The effects of precipitation, glaciation and faulting on the dynamic behavior of the Ama-Drime rift on the Tibet-Nepal border

3. **Juliana Morales** (complete)

- Primary Supervision

- 2011-12

- Topic: The role of glacial erosion in driving tectonics in Tibet and the Himalaya

2. **Drew Rotheram-Clarke** (complete)

- Primary Supervision

- 2010-11

- Topic: Interplay between climate, tectonics and glaciation, Gurla Mandhata, China

1. **Michael Martins** (complete)

- Primary Supervision

- 2010-11

- Topic: Nyainqentanglha Glaciation: Coupling between climate, tectonics, and landscape morphology

# E. ADMINISTRATIVE POSITIONS AND SERVICE

## 13. A. SERVICE WITHIN THE UNIVERSITY

#### University of Toronto Mississauga

* UTM Staff Awards Committee, 2023
* UTM Teaching Excellence Awards Committee, 2023
* Vice-Dean Teaching & Learning, Associate Dean Undergraduate, and Vice-Dean Academic Experience Search Committee, 2022
* New Science Building Advisory Working Group, 2020-present
* OVPR Associate VP Research Advisory Committee, 2020
* CRC Renewal Committee, 2019-present
* CPS Chair, 2019-present
* CPS Associate Chair, Research, 2018-19
* OVPR Research Council, 2018-19
* CPS Advisory Committee, 2018-19
* Curriculum Committee, 2017-2018
* Dean’s Strategic Planning Task Force, 2017
* PTR Committee, 2016-2017
* ERS Strategic Planning, 2016-17
* ERS Faculty Advisor, 2014-2018
* Colloquium Committee, 2011-2014
* CPS Workload Committee, 2011-12
* ERS-Geography Convergence Committee, 2011-12
* Awards Committee, 2010-2015
* CPS Search Committees: 2010-11, 2011-12, 2017-18 (x2), 2019-20, 2020-21 (x3)

#### University of Toronto

* Promotion in the Tenure Stream Presenter for VPFAL, March 29, 2023
* Advisory Search Committee, Chair for the Department of Chemistry, 2023
* PTR Panelist, Retreat for New Academic Administrator, June 2022
* Vice President & Principal UTM Search Committee, 2019-2020
* Earth Science Search Committee, 2017-18 (x2)
* Graduate Committee, July 2009-June 2012
* Geology Department Chair Search Committee, 2011

#### Ohio State University

* Undergraduate committee, October 2005-June 2009
* EarthSci 100 coordinator, May 2007-June 2009
* School of Earth Science Speaker Committee, July 2007-June 2008
* AAPG Student Chapter Advisor, May 2006-June 2009
* Geoclub advisor, October 2005-June 2009

## 13. B. EXTERNAL SERVICE

* NSERC Discovery Grant Panelist, Evaluation Group 1506 – Geosciences, July 1, 2020-June 30, 2025
* Associate Editor, TECTONICS, 2010-2018
* Member of GEOLOGY’s Editorial Board, 2008-2010 term
* OGS evaluator, 2010
* Panelist: *NSF Tectonics* program x3
* Panelist: *NSF Frontiers of Earth System Dynamics* program x1
* Convener AGU special session:
  + Linkages among orogenic processes in Cordilleran systems, Fall 2011
  + From East to West: New Views on the Geology and Tectonics of the Himalayan-Tibetan Orogen, Fall 2009
  + Lithospheric Foundering from top to bottom, Spring 2009
  + Interactions among Climate, Exhumation and Tectonics Through the Changing Climate of the Neogene and Quaternary, Fall 2008
  + Dynamics of Orogenic Belts and Plateaus, Fall 2006
* Convener CGU special session:
  + The interaction between climate and tectonics in Late Cenozoic landscape evolution, Spring 2017
* Organizer, Polar and High Altitude Environments Workshop, UTM, Spring 2019
* Reviewer for: *American Journal of Science (1), Basin Research (2), Earth and Planetary Science Letters (2), Geology (5), Geomorphology (2), Geophysical Research Letters (3), Geosphere (1), Geological Society of America Bulletin (1), Nature Geoscience (1), Palaeogeography Palaeoclimatology Palaeoecology (1), Quaternary Research (1), Tectonics (8 outside of editorial duties), Journal of Seismology (2)*
* Reviewer for: *NSF Tectonics (15), NSF Geomorphology and Land Use Dynamics (2), NSF Postdoctoral Fellow (1), Petroleum Research Foundation (1), Canadian Foundation for Innovation (1), NSERC (2), and Deutsche Forschungsgemeinschaft (1)*

# F. OTHER RELEVANT INFORMATION

## Maternity and Parental Leave:

* July 2012-April 2013
* March 2015-December 2015

## Reports:

* **A Demographic Survey of Canadian Academic Geoscience Report and Website**:

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

## Media:

* **Turkey Earthquake**, February 8, 2023, Newsweek:

<https://www.newsweek.com/deadliest-earthquakes-history-turkey-1779578>

* **Turkey Earthquake**, February 6, 2023, Global News:

<https://globalnews.ca/video/9466426/whats-the-science-behind-the-turkey-syria-earthquakes-severity/>

* **Turkey Earthquake**, Feburary 6, 2023, CP24:

<https://www.cp24.com/video?clipId=2623194&binId=1.1158693&playlistPageNum=1>

* **Wind Erosion Research**, November 9, 2020, Education News Canada:

<https://educationnewscanada.com/article/education/category/research/100/865004/university-of-torontonovember-9-2020-where-the-wind-blows-u-of-t-study-shows-how-a-powerful-force-sculpts-argentina-s-landscape.html>

* **Wind Erosion Research**, October 2020, UTM News:

<https://www.utm.utoronto.ca/main-news/where-wind-blows-new-study-shows-powerful-forces-sculpting-argentinas-landscape>

* **Expert commentary**, May 20, 2020, EOS:

<https://eos.org/articles/cold-cuts-glaciers-sculpt-steep-peaks>

* **Earthquake research**, July 2019, UTM News:

<https://www.utm.utoronto.ca/main-news/fault-lines-research-could-protect-cities-active-quake-zones>

* **California and BC Earthquakes**, July 5, 2019, CBC Afternoon Drive programs:
  + Calgary The Homestretch with Doug Dirks
  + Ottawa All in a Day with Alan Neal
  + Halifax Mainstreet with Bob Murphy
  + Toronto Here and Now with Reshmi Nair
  + Yellowknife Trail’s End with Lawrence Nayally
  + Whitehorse Airplay with Dave White
  + New Brunswick Shift with Vanessa Vander Valk
* **Indonesian Tsunami**, December 26, 2018, CTV News:

<https://www.ctvnews.ca/video?clipId=1572681>

* **Earthquake prediction and preparedness**, October 21, 2018, The Conversation Canada:

<https://theconversation.com/why-some-earthquakes-are-so-deadly-104880>

* **Earthquake prediction and preparedness**, October 3, 2018, Op Ed in The Toronto Star:

<https://www.thestar.com/opinion/contributors/2018/10/03/the-reason-some-earthquakes-are-so-devastating.html>

* **Guatemala (Fuego) eruption**,June 4, 2018, CBC Afternoon Drive programs:
  + St. John’s On the Go with Ted Blades
  + Halifax Mainstreet with Bob Murphy
  + Ottawa All in a Day with Alan Neal
  + Winnipeg Up to Speed with Ismaila Alfa
* **Kilauea eruption**, May 28, 2018, CTV News,

<https://www.facebook.com/CTVNewsChannel/videos/1799148050146518/>

* **Kilauea eruption**, May 23, 2018, Breakfast TV:

<https://www.bttoronto.ca/videos/kilauea-volcano-still-active/>

* **Kilauea eruption**, May 23, 2018, CTV News:

<https://www.facebook.com/CTVNewsChannel/videos/vb.231176056943733/1794225060638817>

* **Kilauea eruption**, May 17, 2018, CTV News:

<https://www.facebook.com/CTVNewsChannel/videos/1787720017955988/>

## Outreach Activities:

* Peel Regional Science Fair Keynote Speaker, April 2018
* Presenter, Visions of Science STEM Day at UTM, March 2018
* “Faculty Field Trip” talk for UTM Residents Group, March 2018
* Presenter, VROC presentation to Grade 4 class in Thompson, Manitoba, March 2017
* Presenter, Garden Avenue Public School (x3), 2017-18
* Presenter, Lab Liaisons, July 2013
* Panelist, Academic Choices and Challenges workshop for graduate students and post-docs, Status of Women Office, University of Toronto, April 2011
* Speaker, Gr8 Designs for Gr8 Girls day, University of Toronto Mississauga, April 2011
* Textbook evaluator, McGraw-Hill, February 2008
* Earth Science Week presentation, Franklin Woods Middle School, Columbus, Ohio, October, 2008
* Math and Physical Sciences Research Forum Judge, April 2007
* Denman Research Forum Judge, May 2007
* AIPG (American Institute of Professional Geologists) presentation, Columbus, Ohio, May 2006
* Math and Physical Sciences Research Forum Judge, April 2006
* SERC education website evaluator, April 2006 (http://serc.carleton.edu/index.html)
* Earth Science Week presentation, Franklin Woods Middle School, Columbus, Ohio, October 2005