

CURRICULUM VITAE

EVA ENKELMANN

PERSONAL DETAILS

Name: Eva Enkelmann
Languages: German (native), English (IELTS band 7.5)
Office Address: Department of Geoscience
University of Calgary
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EDUCATION

- 2012 **Habilitation, Geology**, Eberhard Karls Universität Tübingen,
Thesis: „Using geo- and thermochronometric methods to investigate tectonic and surface processes“.
- 2005 **Ph.D., Geology**, Technische Universität Bergakademie Freiberg,
Thesis: “Fission-track dating: Calibration of the method and its application in the tectonics of eastern Tibet”. (magna cum laude)
- 2001 **Diploma, Geology**, Technische Universität Bergakademie Freiberg, and Max-Planck-Institut für Kernphysik, Forschungsstelle Archäometrie, Heidelberg, Germany,
Thesis: “The Tan-Lu Fault Zone at the eastern edge of the Dabie Shan (eastern China): A view from fission-track thermochronology”. (magna cum laude)

EMPLOYMENT

- Since 7/2020 Associate Professor (tenure) Department of Geoscience, University of Calgary, Canada
- 9/2017–6/2020 Assistant Professor (tenure track) Department of Geoscience, University of Calgary, Canada
- 8/2016 – 8/2017 Associate Professor (tenured) Department of Geology, University of Cincinnati, USA
- 1/2013 – 7/2016 Assistant Professor (tenure track) Department of Geology, University of Cincinnati, USA
- 10/2009 – 10/2012 Research Scientist and Lecturer (non tenure track) University of Tübingen, Germany
- 10/2005 – 9/2009 Research Scientist at the Geochronology Lab at Lehigh University, Bethlehem, PA, USA. Supervisor: Peter Zeitler

- 2/2002 – 6/2005 German National Science Foundation and DAAD Research Associate, Institut für Geologie, Technische Universität Bergakademie Freiberg, Freiberg, Germany. Supervisor: Lothar Ratschbacher
- 8/2001 – 12/2001 Research Associate at the Max-Planck-Institut für Kernphysik, Forschungsstelle Archäometrie, Heidelberg, Germany. Supervisor: Günter Wagner.

RESEARCH INTERESTS

- Active and ancient tectonic processes; interaction of climate, erosion, and tectonics by combining thermochronology, structural geology and field observations
- Geochronology, in particular low-temperature thermochronology (fission-track analysis, (U-Th)/He, ⁴⁰Ar/³⁹Ar dating, zircon U-Pb dating)
- Methodological studies on fission track analysis and helium diffusion with respect to radiation damage
- Basin analysis and detrital geo- and thermochronology of ancient and present deposits

GRANTS AND HONORS

- Contract with Yukon Geological Survey, Exhumation in SE Yukon, CAN\$18,960 (2020-2021)
- Contribution agreement with NWT Geologic Survey, Liard Basin thermal history CAN\$43,975(2020-2021)
- Exceptional Reviewer 2018 for GSA Journal *Lithosphere*
- NRCan – Geological Survey – Richardson Mountains Thermochronology analysis CAN\$12,000
- NRCan – Geological Survey – Arctic Salt dome uplift Geo-and Thermochronology analysis CAN\$12,000
- NRCan – Geological Survey – Richardson Mountains Expedition CAN\$35,000
- NSERC - Discovery Grant 4/2018–3/2023. CAN\$150,000; PI Enkelmann
- NSERC - Northern Region Supplement Grant 4/2018–3/2023. CAN\$80,000; PI Enkelmann
- College of Arts & Sciences, University of Cincinnati, Rising Star Award 2017 (US\$1000)
- FDC – Individual Proposal: GAC-MAC Conference participation and field trip. PI Enkelmann, 2,500 US\$, 2016
- ACS-PRF – New Direction: Triggering a tectonic-climate feedback: The sedimentary record of tectonic-surface processes interactions in the St. Elias Range, Alaska. Sole PI Enkelmann, 110,000 US\$, 24 month, 2015–2017.
- NSF – Ocean Drilling: Collaborative Research: Expedition 341 Oriented Research - Linking Sediment Provenance and Strata Formation to Tectonic-Climatic Interactions along the southern Alaska Margin. PI Enkelmann (lead): 100,057 US\$, 24 month. 2014–2016 (total Project 400k \$ and 6 PI's)
- NSF – Tectonics: Collaborative Research: Investigating the sedimentary record of differing modes of flat-slab subduction. PI Enkelmann, 189,999 US\$, 36 month. 2014–2017 (total project 500k \$, 2 PI's)
- National Geographic Society – Explorer Fund: Mackenzie Mountains Expedition. Sole PI Enkelmann, 20,000 US\$, 12 month, 2014
- FDC – Individual Proposal: Participation on the 5th International Conference of IGCP 588 and fieldtrip in Alaska. PI Enkelmann, 3,650 US\$, 2014
- FDC – Individual Proposal: Development of a student field course and new research projects in the southern Appalachian. PI Enkelmann, 2,258 US\$, 2013
- Deutsche Forschungsgesellschaft (DFG), 2013-2014. “Quantifying deformation and erosion at the Yakutat plate corner (SE Alaska) with integrated thermochronology and numerical modeling“, 67,600 €, 2013–2014
- Deutsche Forschungsgesellschaft (DFG), 2011-2013. “Quantifying deformation and erosion at the Yakutat plate corner (SE Alaska) with integrated thermochronology and numerical modeling“, 196,142

€ plus 1 PhD student position. 2011–2013

- The Petroleum Research Fund, American Chemical Society, “Impact of Fission Track Damage on Helium Diffusion Kinetics in Apatite and Zircon”, 89,995.-\$, 2007-2009, PI: Peter Zeitler.
- DAAD and PHD program at TU Freiberg, Travel grant for Myanmar field work, 1251 €, 2005
- GAS AG travel grant for Ar/Ar laboratory visit at NGU Norway, 3,400 €, 2005
- DAAD and PHD program at TU Freiberg, Travel grant for AGU Annual Meeting, 890 €, 2004
- DAAD and PHD program at TU Freiberg, Travel grant for Ar/Ar laboratory visit at NGU Norway, 566 €, 2004
- DAAD and PHD program at TU Freiberg, Travel grant for Int. Conference of Fission Track Dating, Netherlands, 275 €, 2004
- DAAD and PHD program at TU Freiberg, Travel grant for Ar/Ar laboratory visit at NGU Norway, 460 €, 2003
- DAAD and PHD program at TU Freiberg, Travel grant for Int. Conference of Nuclear Tracks in Solids, India, 400 €, 2002
- DAAD and PHD program at TU Freiberg, Travel grant for China field work, 463 €, 2002
- TU Bergakademie Freiberg, Bernhard-von-Cotta Prize for the Best Diploma Thesis, 500 €, 2001

TEACHING EXPERIENCES

University of Calgary (Canada):

GLGY445: Structural Geology

GLGY615: Analytical Methods in Geoscience

GLGY699: Radiometric Dating Methods

GLGY707: Geology and Geophysics of Western Canada

University of Cincinnati (USA):

GEOL3004: Structural Geology/Tectonics, including field trip to the southern Appalachian

GEOL6034: Thermochronometric Methods, including field trip and laboratory work

GEOL6042: Tectonics and Regional Geology

GEOL1099: Foundations of Geology, including day field trips

GEOL1022: Geology in your shopping cart

University of Tübingen (Germany):

Block course: Low-temperature thermochronology (graduate level)

Geodynamics II: Regional Geology (undergraduates, majors)

Geodynamics of Endogen & Exogen Processes (graduate level)

Field Camp and mapping in Elba (undergraduate and graduate level)

Maps & Profile (undergraduates, majors)

Lehigh University (USA):

EES027: Natural Disasters

Lehigh Field camp instructor, metamorphic core complex, Idaho

Mineral separation and (U-Th)/He analysis lab instructor

TU Freiberg (Germany):

Co-teaching Thermochronology

Fission Track lab instructor Oct. 02 –Aug. 2005

Teaching Assistance in Structural Geology

PRACTICE, INTERNS AND EMPLOYMENT RELATED FIELD WORK

Oct 2020	Fieldwork Intermontane terrane, central BC
July 2019	Fieldwork Mackenzie Mountains with NWT Geological Survey
Aug. 2018	Fieldwork Rocky Mountain Trench in southern British Columbia
July 2018	Fieldwork Richardson Mountains NWT and Yukon with the Geological Survey of Canada (T. Hadlari)
Sept. 2017	Fieldwork Canoe Reach Region (B.C.) with Hersh Gilbert
June/July 2016	Fieldwork Yakutat Bay SE Alaska (with J. Garver and C. Davidson)
July 2015, 2016	Fieldwork Cook Inlet Basin/Matanuska Valley, Alaska (with E. Finzel)
Aug. 2014	Fieldwork Yakutat, Alaska.
July 2014	Fieldwork Mackenzie Mountains, Canada
Sep 2013	Fieldwork Tobago, Trinidad-Tobago with Lewis Owen (University of Cincinnati)
July 2012	Fieldwork Kluane NP, Yukon, Canada
Aug. 2011	Fieldwork St. Elias Range, Alaska
July 2011	Fieldwork in Washington and Montana with P. Chamberlain and A. Mulch
June 2010	Fieldwork in the Bohemian massif, Czech Republic.
Feb. 2010	Field course and mapping camp at Elba, Italy.
Sep. 2009	Fieldwork in the Sierra Pampleanas, NW Argentina with K. Ridgway (Purdue University)
May 2009	Zircon fission track dating at the laboratory at Union College in collaboration with J. Garver
Feb 2009	3D numerical modelling with Peter Koons, University of Maine
June 2008	Lehigh Field Camp, Metamorphic Core Complex, Pioneer Mts., Idaho.
April – May 2008	Zircon fission track dating at the laboratory at Union College in collaboration with J. Garver
Mar. – April 2008	Field work in NE-India along the Brahmaputra River with members of the Quaternary Research Centre of the University of Washington (B. Hallet and D. Montgommery).
July – August 2007	Field work within the STEEP project in the St. Elias mountain range, Alaska.
May 2007	Zircon fission track dating at the laboratory at Union College in collaboration with J. Garver
July 2006	Field work within the STEEP project in the St. Elias mountain range, Alaska.
May – June 2006	Field work with W. Kidd (Albany) and Dr. Tang (Chengdu) in Tibet (China), Namche Barwa area.
Mar. – Apr. 2005	Laboratory work at the ⁴⁰ Ar/ ³⁹ Ar lab using CO ₂ -laser at the Geological Survey of Norway, Trondheim, supervised by Dr. E. Eide.
Feb. – Mar. 2005	Field work with L. Ratschbacher (Freiberg) and Myo Min (Myanmar) in central Myanmar (Burma).
Feb. 2005	Short course “3D modelling with GOCAD” by Dr. M. Apel at the Technische Universität Bergakademie Freiberg.
Oct. – Nov. 2004	Laboratory work at the ⁴⁰ Ar/ ³⁹ Ar lab using UV-laser at the Geological Survey of Norway, Trondheim, supervised by Dr. E. Eide.

Oct. 2003	Short course “SIMS - secondary ion mass spectroscopy” by Dr. M. Wiedenbeck at the Geoforschungszentrum Potsdam.
Aug. – Sep. 2002	Field work with L. Ratschbacher (Freiberg) in collaboration with B. Hacker (Santa Barbara) and Y.O. Zhang (Beijing) in the Qinling orogen, China.
Jul. – Aug. 2002	Field work in collaboration with S. Graham and colleagues (Stanford) in eastern Tibet (Songpan-Garzê belt, Longmen Shan, Sichuan Basin), China.
Feb. –Jul. 2002	Set up and calibration of the new fission track laboratory at TU Bergakademie Freiberg.
Jul. – Aug. 1999	Intern at Engineering Office Umweltbüro Vogtland, Weischlitz, Germany. Structural geological mapping in the area of the mineral spring of the Bad Brambach spa (Germany).
Nov. – Dec. 1997	Internship at Cooperaciones Metallurgicas, Oruro, Bolivia. Surveying and mapping in the Bolivian Andes in preparation of tin mining.

INVITED PRESENTATIONS

Oct 2020	Department Seminar: “Building Canada’s highest peaks: Tectonics and Climate Interaction in the Yakutat – North American collision zone” at Trinity University, Dublin, Ireland (online) 30. October 2020
June 2020	US & Canada collaboration on Northern Cordillera Research: “Overview of exhumation studies in the Northern Cordillera” Online workshop 2.-3. June 2020
Feb 2020	Department Seminar: “Building Canada’s highest peaks: Tectonics and Climate Interaction in the Yakutat – North American collision zone” at Texas A&M University, 14. Feb 2020.
Aug 2019	Invited talk „Tectonics and Surface Process Interaction at the Yakutat-North American collision zone“ GSA Penrose Conference, CLAST2019, Climatic Controls on Continental Erosion and Sediment Transport: Juneau, Alaska 4–10 August,
Nov 2018	Invited presentation on “Career paths” to the Association of Women Geoscientists (AWG) chapter at Dalhousie
Nov 2018	Department Seminar: “Building Canada’s highest peaks: Tectonics and Climate Interaction in the St. Elias Mountains” Dalhousie University.
Sep 2018	“Revealing rock exhumation pattern and temporal changes in glaciated mountains“ 16 th International Conference on Thermochronology. Quedlinburg, Germany, 16–21 September.
April 2018	Seminar talk for Tectonophysics Group, “Upper plate response to varying subduction styles recorded in the forearc Cook Inlet Basin, south central Alaska” TU Bergakademie Freiberg, Germany
Dec 2017	Cenozoic deformation from the Yakutat–North American collision to the eastern margin of the Northern Canadian Cordillera. American Geophysical Union, Annual Fall Meeting, New Orleans
Nov 2017	McConnell Club talk (NRCan Geological Survey Canada) “Building Canada’s highest Mountains: Yakutat – North American collision” on 8. November 2017.
Oct 2017	SpeedDating!: Advise on Sampling and Applications for fission-track dating. Invited presentation to the Pardee Keynote Symposium P4. Speed Dating!: Advice on Sampling and Applications Through the Lens of the Geochronologist. Annual GSA Meeting in Seattle.
Aug 2017	Research talk “Spatial pattern of Cenozoic exhumation at the western margin of the Northern Canadian Cordillera”, CCArray workshop, Victoria, B.C.
July 2017	Seminar talk for Tectonophysics Group, “Source to sink record of exhumation in the St. Elias orogen” TU Bergakademie Freiberg, Germany

- April 2017 Research talk, “Tectonic – Climate Interaction at the Yakutat–North American Collision zone“ Martin Luther Universitaet Halle, Germany
- Feb. 2017 Research talk, “Building Canada's highest Mountains: Yakutat - North American collision” University of Calgary
- Nov. 2016 Colloquium talk, “ Exhumation processes at the Yakutat – North American collision zone (southeast Alaska)”. Syracuse University
- July. 2016 Seminar talk for Tectonophysics Group, “Exhumation in the St. Elias Mountains” TU Bergakademie Freiberg, Germany
- Feb. 2016 Research talk, “Investigating the interplay between Tectonics and Atmospheric Processes” University of Frankfurt, Germany
- Feb. 2016 “Building the Earth’s highest coastal mountain range – the St. Elias Mountains in Southeast Alaska”, Faculty Club of the University of Cincinnati
- Nov. 2015 Colloquium talk, “Tectonics and Surface Process Interaction at the Yakutat Plate Corner, SE Alaska” University of Wisconsin, Milwaukee
- Nov. 2015 Colloquium talk, “Tectonics and Surface Process Interaction at the Yakutat Plate Corner, SE Alaska” Miami University
- Oct. 2015 Colloquium talk, “Tectonics and Surface Process Interaction in Southeast Alaska“, Appalachian State University
- Sep 2015 Workshop (1 day) “Thermochronology Methods and Applications” at Purdue University
- Aug 2015 Workshop (1 day) “Detrital Applications of Geochronology and Thermochronology” on 31. August, 2015 at the University of Alaska, Anchorage.
- July 2015 Colloquium talk “Detrital Thermochronology in Glaciated Regions” University of Manchester, UK
- Feb 2015 Colloquium talk “Tectonics and Surface Process Interaction at the Yakutat Plate Corner” at the University of Iowa
- May 2014 Field guide “The Geology and surface processes in the St. Elias Mountains “ at the IGCP-588 conference and fieldtrip in Alaska
- Nov. 2013 Colloquium talk “Tectonics and Surface Process Interaction at the Yakutat Plate Corner, SE Alaska“ at University of Indiana
- Nov. 2013 Colloquium talk “Mountain Building and Erosion in the St. Elias Mountains (southeast Alaska)” at West Virginia University
- Oct 2013 Colloquium talk “Tectonics and Surface Process Interaction at the Yakutat Plate Corner” at Ball State University, Indiana
- Sep 2013 Plenary Lecture, “Spatial and temporal variation in rock exhumation in the St. Elias Mountains: Insights from multiple thermochronometer techniques“ GV-DMG annual meeting, Tuebingen, Germany
- Dec. 2012 “Spatial Variations in Deformation and Exhumation at the Yakutat Plate corner” AGU Fall meeting, San Francisco
- Mar. 2012 Interview Assistant Professor in Quaternary Geochronology “Using thermochronology to study rock exhumation processes n the St. Elias Range, Alaska” at the University of Cincinnati
- Feb. 2011 Chapman Lecture Series, “Tectonic and surface process interaction at the Yakutat – North American collision zone in southeast Alaska” University of Alaska, Fairbanks
- Feb 2011 Chapman Lecture Series, “Using thermochronology to study temporal and spatial variations of rock exhumation” University of Alaska, Fairbanks
- Feb. 2011 Geology Department Seminar, “Tectonics and surface process interaction in the St. Elias Range” University of Alaska, Fairbanks
- Oct. 2009 GSA annual meeting, Portland, USA
- Feb. 2009 Seminar talk, University of Maine
- Jan. 2009 Earth and Space Science Dept. Seminar, University of Washington, Seattle
- Jan. 2009 Earth Science Dept. Seminar, Purdue University
- Dec. 2008 AGU Fall meeting, San Francisco

Nov. 2008 Interview talk W3 Professorship in Geology and Tectonic, University of Tübingen
 Sep. 2007 International workshop on “Low-temperature thermochronology and its application: world-wide transfer of knowledge and inter-laboratory calibration”, Pisa, Italy.
 Sep. 2007 Lectures at the International Summer School “Isotope Geochemistry and Geochronology of Tectonic Processes” Marmaris, Turkey.
 Feb. 2007 Earth and Environmental Science Dept. Seminar, Lehigh University
 Feb. 2005 Geological Society of Myanmar, Rangoon, Myanmar
 Feb. 2005 Graduate School of Geoscience, University of Mandalay, Myanmar
 Oct. 2003 Ion-Accelerator-Facility, user committee meeting, Hahn-Meitner Institut Berlin, Germany

PROFESSIONAL SERVICES AND MEMBERSHIPS

- Associate Editor of Tectonics (AGU Journal) since 2017
- Editorial Board Member of Lithosphere (GSA Journal) 2015–2017
- Reviewer and panelist for funding agencies: National Science Foundation (NSF): Tectonics, Geomorphology, GeoPRISM, EarthScope Programs; ACS-Petroleum Research Fund; German Research Foundation (DFG)
- Reviewer for journals: Tectonics, Geology, Tectonophysics, Basin Research, EPSL, GSA Bulletin, Int. J. Earth Sciences., Lithosphere, Geomorphology, Geosphere, Chemical Geology, G-cube, Journal Quaternary Science Reviews, Terra Nova, Science, Nature Geoscience
- Member of: Geological Society of America, American Geophysical Union/European Geophysical Union, Geological Association of Canada
- Conferences:
 - Member of the Scientific Committee for the 17th International Conference on Thermochronology, Santa Fe, USA, 13–19. Sep 2020
 - GeoConvention Annual Meeting 2020 (Calgary) session convener: *Lithospheric deformation: from terrane accretion to continental collision*. By Eva Enkelmann, Hersh Gilbert, William Matthews, Lydia DiCaprio.
 - GeoConvention Annual Meeting 2020 (Calgary): 1-day short course: *Rates and Dates: Dating methods and applications* by Eva Enkelmann and William Matthews
 - GeoConvention Annual Meeting 2020 (Calgary): 1-day short course: *Quantifying sediment provenance and basin thermal histories* by Eva Enkelmann and William Matthews
 - GAC-MAC Annual Meeting 2019 (Quebec City) session convener: *Quantifying Timing and Rates of Geologic Processes* by Eva Enkelmann and William Matthews.
 - GAC-MAC Annual Meeting 2019 (Quebec City) Short Course Title: *Rates and Dates: Geo- and Thermochronology methods and applications* by Eva Enkelmann and William Matthews.
 - GSA- Cordilleran Section Annual Meeting 2015 (Anchorage) session convener: *Tectonic-surface process interactions during terrane accretion and mountain building along the Cordillera*; by Richard Lease and Eva Enkelmann
 - GSA- NE Section Annual Meeting 2014 (Lancaster) session convener: *Echoes of Exhumation: Comparing Exhumation Processes of the Ancient Appalachians to Those of Currently Active Orogens*; by Craig Dietsch and Eva Enkelmann
 - AGU Fall Meeting 2013 (San Francisco) session convener: *Glacier Processes on the Scales of Mountains and Orogens*; by Rachel Headley and Eva Enkelmann

- Guest Editor: 2011–2013 Special Volume Geosphere: “Neogene tectonics and climate-tectonic interactions in the southern Alaskan orogen” edited by Terry Pavlis, Eva Enkelmann, Sean Gulick, Gary Pavlis.
- Faculty Member of the Ohio Transfer Module – Natural Science Subcommittee (2016–2017)
- Outreach activities:
 - regular visits for the Imani Afterschool program at the Rothenberg School (1-6th grade) in Cincinnati.
 - lectures at the Hughes High School (Cincinnati) to educate 11th grade students on Geoscience and Concepts of Scientific research

STUDENTS

Undergraduate students (n=19):

Alyson MacDougall (BSc, in progress, University of Calgary)
 Gabby Mackinnon (BSc, in progress, University of Calgary)
 Andreas Abersold (BSc, thesis, in progress, University of Calgary)
 Scott Tiede (BSc, thesis, in progress, University of Calgary)
 Molly Csak (BSc, thesis, in progress, University of Calgary)
 Damant, Kade (BSc, thesis, in progress, University of Calgary)
 Grieco, Ryan (BSc, thesis, graduated 2019, University of Calgary)
 Zhang, Chujing (BSc, project, graduated 2018, University of Calgary)
 Schartman, Anna (BSc, project, graduated 2018, University of Cincinnati)
 McAleer, Shawn (BSc, project, graduated 2016, University of Cincinnati)
 Neale, Shannon (BSc, project, graduated 2016, University of Cincinnati)
 Thomas, Victoria (BSc, project, graduated 2017, University of Cincinnati)
 Chigolle, Emily (BSc, project, graduated 2015, University of Cincinnati)
 Taylor, Bridget (BSc, project, graduated 2015, University of Cincinnati)
 Jackson, Geoffrey (BSc, project, graduated 2014, University of Cincinnati)
 Loose, Matthias (BSc thesis, graduated 2014, University of Tuebingen)
 Balles, Christof (BSc thesis, graduated 2012, University of Tuebingen)
 Mueller, Kilian (BSc thesis, graduated 2012, University of Tuebingen)
 Widmann, Philipp (BSc thesis, graduated 2011, University of Tuebingen)

Graduate students (n=15):

Damant, Kade (MSc, thesis, in progress, University of Calgary)
 Cecilia DeMello (PhD thesis, 2019–in progress, University of Calgary)
 Fraser, Kelley (MSc thesis, 2018–2020, graduated, University of Calgary)
 McKay, Ryan (MSc thesis, 2018–2020, graduated, University of Calgary)
 Minhee Choi (MSc thesis, 2017–2019, University of Calgary, coadvised with David Eaton)
 Arkle, Jeannet (PhD thesis, 2019, University of Cincinnati)
 Bootes, Nathaniel (MSc thesis, graduated 2018, University of Cincinnati)
 Sanchez-Lohff, Sonia (MSc thesis, graduated 2018, University of Cincinnati)
 Falkowski, Sarah, (PhD thesis, graduated 2016, University of Tuebingen)
 Dunn, Catherine (MSc thesis, graduated 2016, University of Cincinnati)
 Piestreszeniewicz, Adam (MSc thesis, graduated 2015, University of Cincinnati)
 Madanipour, Saeed (PhD thesis, graduated 2015, University of Tuebingen and Iran)
 Grabowski, David (MSc thesis, graduated 2012, University of Tuebingen)

Merli, Gabriel (MSc thesis, graduated 2011, University of Tuebingen)
Szameitat, Annika (MSc thesis, graduated 2010, University of Tuebingen)

Postdoctoral Fellows (n=1):

Jess, Scott (since 2019)

PUBLICATION LIST

PEER-REVIEW JOURNALS

*graduate student paper

Web of Science: h-index: 22
Google Scholar: h-index: 26

1. *Khodaparast, S., Madanipour, S., **Enkelmann, E.**, Nozaem, R., Hessami, K., Fault inversion in central Iran: evidence of post Pliocene intracontinental left lateral kinematics at the northern Iranian Plateau margin. *Journal of Geodynamics*. 140, 101784. <https://doi.org/10.1016/j.jog.2020.101784>
2. Jess, S., Koehn, D., Fox, M., **Enkelmann, E.**, Sachau, T., Aanyu, K., Paleogene Initiation of the Western Branch of the East African Rift: the uplift history of the Rwenzori Mountains, Western Uganda. *Earth and Planetary Science Letters* 552, 116593 <https://doi.org/10.1016/j.epsl.2020.116593>
3. *Pickering, J., Matthews, W., **Enkelmann, E.**, Guest, B., Sykes, C., Koblinger, B., 2020. Laser Ablation U-Th-Sm/He dating of apatite. *Chemical Geology* 548, 119683. <https://doi.org/10.1016/j.chemgeo.2020.119683>
4. Abdulhameed, S., Ratschbacher, L., Jonckheere, R., Gaḡała, Ł., **Enkelmann, E.**, Käßner, A., Kars, M., Szulc, A., Kufner, S.-K., Schurr, B., Ringenbach, J.-C., Nakapelyukh, M., and Khan, J. 2020. Tajik Basin and Southwestern Tian Shan, Northwestern India-Asia Collision Zone: 2. Timing of Basin Inversion, Tian Shan Mountain Building, and Relation to Pamir-Plateau Collapse and Deep India-Asia Indentation. *Tectonics*, 39, e2019TC005873. <https://doi.org/10.1029/2019TC005873>
5. **Enkelmann E.** and Jonckheere, R., 2019. Geochronology: Fission Track Dating Method. *Encyclopedia of Geology 2nd Edition*, Elsevier, invited contribution <https://doi.org/10.1016/B978-0-12-409548-9.11991-8>
6. *Bootes, N., **Enkelmann, E.**, Lease, R., 2019. Late Miocene to Pleistocene source to sink record of exhumation and sediment routing in the Gulf of Alaska from detrital zircon fission-track and U-Pb double dating. *Tectonics* 38, 2703–2726. doi: 10.1029/2019TC005497
7. **Enkelmann, E.**, Finzel, E., Arkle, J. 2019. Deformation at the eastern margin of the Northern Canadian Cordillera: potentially related to opening of the North Atlantic. *Terra Nova* 31, 3, 1-8. <https://doi.org/10.1111/ter.12374>
8. *Schartman, A., **Enkelmann, E.**, Garver, J.I., Davidson, C. 2019. Uplift and Exhumation of the Russell Fiord and Boundary blocks along the northern Fairweather Transform Fault, Alaska. *Lithosphere*, 11 (2), 232–251. doi.org/10.1130/L1011.1.

9. **Enkelmann, E.**, *Sanchez Lohff, S.K., Finzel, F.S. 2019. Detrital Zircon double-dating of forearc basin strata reveals magmatic, exhumational, and thermal History of Sediment Source Areas. *GSA Bulletin*, v.131, no. 7/8, p. 1364–1384. doi.org/10.1130/B35043.1.
10. Reid, M.R., Finzel, E.S., **Enkelmann, E.**, McClelland, W.C. 2018. Detrital zircon provenance of Upper Jurassic-Upper Cretaceous forearc basin strata on the Insular terrane, south-central Alaska. *in* Ingersoll, R.V., Lawton, T.F., and Graham, S.A., eds., *Tectonics, Sedimentary Basins, and Provenance: A Celebration of William R. Dickinson's Career: Geological Society of America Special Paper 540*, doi.org/10.1130/2018.2540(25).
11. *Madanipour, S., Yassaghi, A., Ehlers, T.A., **Enkelmann, E.**, 2018. Tectonostratigraphy, Structural Geometry and Kinematics of the NW Iranian Plateau Margin: Insights from the Talesh Mountains, Iran. *American Journal of Science* 318, 208-245. DOI: 10.2475/02.2018.02
12. *Madanipour, S., Ehlers, T.A., Yassaghi, A., **Enkelmann, E.**, 2017. Accelerated middle Miocene exhumation of the Talesh Mountains constrained by U-Th/He thermochronometry: evidence for the Arabia–Eurasia collision in the NW-Iranian Plateau. *Tectonics* 36, 1538-1561. DOI: 10.1002/2016TC004291
13. Yang, Z., Shen, C., Ratschbacher, L., **Enkelmann, E.**, Jonckheere, R., Wauschkuhn, B., Dong, Y. 2017. Sichuan Basin and Beyond: Eastward foreland growth of the Tibetan Plateau from an integration of Late Cretaceous–Cenozoic fission-track and (U-Th)/He ages of the eastern Tibetan Plateau, Qinling, and Daba Shan. *JGR-Solid Earth* 122, 4712–4740. DOI: 10.1002/2016JB013751
14. Zeitler, P.K., **Enkelmann, E.**, Thomas, J., Watson, B., Ancuta, L.D., Idleman, B.D. 2017. Solubility and trapping of helium in apatite. *Geochemica et Cosmochemica Acta* 209, 1-8.
15. Finzel, E. & **Enkelmann, E.**, 2017. Miocene–Recent sediment flux in the south-central Alaskan forearc basin governed by flat-slab subduction. *Geochem. Geophys. Geosyst.*, 18, 1739–1760.
16. *Dunn, C.A., **Enkelmann, E.**, Ridgway, K.D., Allen, W.K., 2017. Source to sink evaluation of sediment routing in the Gulf of Alaska and Southeast Alaska: a thermochronometric perspective. *JGR-Earth Surface*, 122, 711-734. DOI: 10.1002/2016JF004168.
17. Rutte, D., Ratschbacher, L. Khan, J., Stübner, K. Hacker, B. R., Stearns, M.A., **Enkelmann, E.**, Jonckheere, R., Pfänder, J. A, Sperner, B., Tichomirowa, M. 2017. Building the Pamir-Tibet Plateau—Crustal stacking, extensional collapse, and lateral extrusion in the Central Pamir: 2. Timing and Rates. *Tectonics*, 36, 3, 385-419. doi: 10.1002/2016TC004294
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ABSTRACTS

2020

- Jess, S., Koehn, D., Fox, M., **Enkelmann, E.**, Sachau, T., Aanyu, K., 2020. Thermal history modelling in extensional settings: the Rwenzori Mountains of the East African Rift. AGU Fall Meeting, San Francisco, USA, December. *Invited*
- Enkelmann, E.** 2020. Rock exhumation in the northern North American Cordillera. AGU Fall Meeting, San Francisco, USA, December. *Invited*
- *Damant, K., **Enkelmann, E.**, Matthews, W., Fraser, K.I., 2020. Timing of Bedrock Exhumation Across the Columbia River Fault near Revelstoke, BC. AGU Fall Meeting, San Francisco, USA, December.
- *Johns-Buss, E., Beranek, L.P., **Enkelmann, E.**, Jess, S., Matthews, W., 2020. Detrital zircon U-Pb and fission-track double-dating studies of Lower Cretaceous Hibernia Formation strata in the Jeanne d’Arc basin, offshore Newfoundland. GSA Annual Meeting, Montreal.
- *Johns-Buss, E., Beranek, L.P., **Enkelmann, E.** 2020. Detrital zircon U-Pb and fission-track double-dating of Jurassic to Cretaceous reservoir sandstone units in the Jeanne d’Arc basin, offshore Newfoundland. Annual GeoConvention 11–13 May 2020.
- Scott, A.J., **Enkelmann, E.**, Matthews, W. 2020. Multi-method dating of individual apatite and zircon grains: faster and cheaper analysis for detrital studies. Annual GeoConvention 11–13 May 2020.
- *McKay, R., **Enkelmann, E.**, Matthews, W., Hadlari, T. 2020. Cenozoic exhumation history of the northern Richardson Mountains, Canada: Results from (U-Th-Sm)/He analysis. Annual GeoConvention 11–13 May 2020.
- *Fraser, K.I., **Enkelmann, E.**, Matthews, W., Grieco, R., Damant, K. 2020. Exhumational history of the central Rocky Mountain Trench using low-temperature thermochronology. Annual GeoConvention 11–13 May 2020.
- *Damant, K., **Enkelmann, E.**, Matthews, W., Fraser, K.I., 2020. Bedrock Exhumation Across the Columbia River Fault near Revelstoke, BC. Annual GeoConvention 11–13 May 2020.
- *Choi, M., Eaton, D., **Enkelmann, E.** 2020. Is the eastern Denali Fault still active?: Tectonic implications of the 2017 earthquake doublet, northwestern Canada. Annual GeoConvention 11–13 May 2020.
- Scott, A.J., **Enkelmann, E.**, Matthews, W. 2020. A new and innovative double-dating technique suitable for porphyritic systems. AME Roundup Annual Meeting, Vancouver 20–23 January, 2020.

2019

- *Fraser, K., **Enkelmann, E.**, Matthews, W., Grieco, R., Damant, K. 2019. Low-temperature thermochronology of the central Rocky Mountain Trench. Tom Oliver Symposium 19. November 2019, University of Calgary.
- *Damant, K., **Enkelmann, E.**, Matthews, W., Fraser, K., 2019. Rock exhumation across the Columbia River Fault near Revelstoke, BC. Tom Oliver Symposium 19. November 2019, University of Calgary.
- *McKay, R., **Enkelmann, E.**, Matthews, W., Hadlari, T. 2019. Cenozoic exhumation history of the northern Richardson Mountains, Canada: Results from (U-Th-Sm)/He analysis. Tom Oliver Symposium 19. November 2019, University of Calgary.
- Enkelmann, E.**, Bootes, N., Lease, Richard, Dunn, C.A., Ridgway, K., 2019. Sediment Source to Sink Record of a Glaciated Convergent Plate Margin: an Example from Southeast Alaska. AGU Fall Meeting, San Francisco, USA, 9-13 December.
- Enkelmann, E.** 2019. Deformation along the eastern margin of the Northern Canadian Cordillera. 47th Annual Yellowknife Geoscience Forum, 19–21 November, Yellowknife.
- *Khodaparast, S., Madanipour, S., Enkelmann, E., Nozaem, R., Hessami, K., Matthews, W. 2019. Low-temperature thermochronology constraints on Cenozoic fault kinematic inversion in Northern Iranian Plateau margin, case of the Kushk-e-Nosrat Fault, central Iran. The 3rd TRIGGER international conference, 8-10 October 2019, Zanjan, Iran
- Enkelmann, E.**, 2019. Tectonics and Surface Process Interaction at the Yakutat-North American collision zone. GSA Penrose Conference, Climatic Controls on Continental Erosion and Sediment Transport: CLAST2019, Juneau, Alaska 4–10 August, *Invited*.
- Choi, M., Eaton, D., **Enkelmann, E.** 2019. The May 1, 2017 St. Elias earthquake sequence: Tectonic implications and structural setting near the southern terminus of the eastern Denali Fault, northwestern Canada. 27th IUGG meeting, Montreal, July 8-18.
- Enkelmann, E.**, 2019. Detrital zircon U-Pb and fission track double dating: investigating sediment provenance and the thermal history of source rock regions. GAC-MAC Quebec City, May 12-15.
- Enkelmann, E.**, Finzel, F.S., Sanchez Lohff, S.K., 2019. Detrital zircon double-dating of forearc Cook Inlet basin strata reveals the thermal history of sediment source regions. GAC-MAC Quebec City, May 12-15.
- Matthews, W., **Enkelmann, E.**, Pickering, J., 2019. Laser ablation U-Th-Sm/He dating of apatite. GAC-MAC Quebec City, May 12-15.
- Enkelmann, E.**, Dunn, C.A., Bootes, N., 2019. Source to sink record of the Late Cenozoic Yakutat – North American collision. Cordilleran Tectonics Workshop, Vancouver, BC, February 22-24.

2018

- Matthews, W., **Enkelmann, E.**, Pickering, J., 2018. Laser ablation U-Th-Sm/He dating of apatite and possible application to detrital studies. Annual Tom Oliver Poster Session – Geoscience Department, University of Calgary 29. November.
- Enkelmann, E.**, Sanchez Lohff, S.K. Finzel, E.S., 2018. Detrital zircon double-dating of forearc basin strata reveals upper plate response to changing subduction modes. Annual Tom Oliver Poster Session – Geoscience Department, University of Calgary 29. November.
- Enkelmann, E.** 2018. Revealing rock exhumation pattern and temporal changes in glaciated mountains. 16th International Conference on Thermochronology. Quedlinburg, Germany, 16–21 September. *Invited Talk*

Matthews, W., **Enkelmann, E.**, Pickering, J. 2018. Laser ablation U-Th-Sm/He dating of apatite. 16th International Conference on Thermochronology. Quedlinburg, Germany, 16–21 September.

Enkelmann, E. & Finzel, E.S., 2018. Detrital zircon double-dating of forearc basin strata reveals upper plate response to changing subduction modes. Resources for Future Generations (RFG), GAC-MAC Annual Meeting, Vancouver, BC, June 16–21.

Enkelmann, E. 2018. Cenozoic deformation and rock exhumation at the Yakutat-North American collision zone. Cordilleran Tectonics Workshop, Whitehorse, Yukon, March 2-4.

2017

Enkelmann, E. 2017. Cenozoic deformation from the Yakutat–North American collision to the eastern margin of the Northern Canadian Cordillera. AGU Annual Fall Meeting, New Orleans, December, 2017. *Invited talk*

Finzel, E.S., **Enkelmann, E.**, Falkowski, S., Reid, M.R., McClelland, W.C. 2017. Forearc basin detrital record of Mesozoic–Cenozoic tectonics in the northern Cordillera, south-central Alaska. Annual GSA Meeting in Seattle, Oct. 22-25, 2017.

Enkelmann, E., Garver, J.I. 2017. SpeedDating!: Advice on Sampling and Applications for fission-track dating. Invited presentation to the Pardee Keynote Symposium P4. Speed Dating!: Advice on Sampling and Applications Through the Lens of the Geochronologist. Annual GSA Meeting in Seattle Oct. 22-25, 2017. *Invited*

Enkelmann, E., Dunn, C., Bootes, N., Lease, R., Ridgway, K.D. 2017. Source-to-sink record of erosion along a glaciated convergent margin. Annual GSA Meeting in Seattle, Oct. 22-25, 2017.

*Carsyn, A., Finzel, E.S., **Enkelmann, E.**, Thomson, S.N. 2017. Insights for provenance analysis from U/Pb geochronology applied to modern watersheds – Talkeetna Mountains, southcentral Alaska. Annual GSA Meeting in Seattle, Oct. 22-25, 2017.

*Schartman, A., **Enkelmann, E.**, Garver, J.I., Davidson, C. 2017. Temporal and spatial pattern of deformation at the northern end of the Fairweather transform boundary, Southeast Alaska. Annual GSA Meeting in Seattle, Oct. 22-25, 2017.

2016

*Sanchez-Lohff, S., **Enkelmann, E.**, Finzel, F., Reid, M., 2016. Upper Plate Response to Varying Subduction Styles in the Forearc Cook Inlet Basin in South Central Alaska. AGU Annual Fall Meeting, San Francisco, December 2016.

*Bootes, N., **Enkelmann, E.**, Lease, R., 2016. Offshore Sedimentary Record of Exhumation in Southeast Alaska Using Detrital Zircon Fission Track Analysis. AGU Annual Fall Meeting, San Francisco, December 2016.

Enkelmann, E., Dunn, C., Ridgway, K.D., Allen, W., 2016. Modern and Past Rock Exhumation in the St. Elias Mountains Revealed by Onshore and Offshore Detrital Thermochronology. AGU Annual Fall Meeting, San Francisco, December 2016.

Enkelmann, E., Falkowski, S., 2016. Cenozoic evolution of rock exhumation pattern at the Yakutat-North American collision zone. Geological Assoc. Canada – Mineralogical Assoc. Canada Annual Meeting, 1-3 June 2016, Whitehorse, Yukon, Canada.

Finzel, E.S., **Enkelmann, E.**, Falkowski, S., 2016. Long-term forearc basin evolution in response to changing subduction styles in southern Alaska, GSA Abstracts with Programs Vol. 48, No. 7. Abstract No: 279455. GSA Annual Meeting, 25 – 28 September, Denver, Colorado.

Gosney, L.C., Finzel, E.S., **Enkelmann, E.**, 2016. Investigating the correlation between watershed surface geology and detrital zircon age patterns in modern rivers. GSA Abstracts with Programs Vol. 48, No. 7. Abstract No: 279831. GSA Annual Meeting, 25 – 28 September, Denver, Colorado.

*Falkowski, S., **Enkelmann, E.**, Ehlers, T.A. 2016. Multi-method geo- and thermochronology of glacially transported cobbles reveals the tectonic and exhumation history of the St. Elias Mountains (Alaska/Yukon). European Geophysical Union, Annual Meeting, 17-22 April, 2016, Vienna, Austria.

*Falkowski, S., **Enkelmann, E.**, Drost, K., Pfaender, J.A., Stuebner, K., Ehlers, T.A., 2016. Cenozoic evolution of the Yakutat-North American collision zone and structural accommodation of St. Elias syntaxis exhumation, Alaska/Yukon. European Geophysical Union, Annual Meeting, 17-22 April, 2016, Vienna, Austria.

Fillon, C., Ehlers, T.A., **Enkelmann, E.**, Becker, J.K., Schnellmann, M. 2016. Thermal and exhumation histories from borehole thermochronometer samples in the Swiss Molasse Basin. European Geophysical Union, Annual Meeting, 17-22 April, 2016, Vienna, Austria.

2015

*Dunn, C., **Enkelmann, E.**, Allen, W., Ridgway, K.D., 2015. Linking Quaternary Climate Changes to Mountain Building in Southeastern Alaska. AGU Annual Fall Meeting, San Francisco, December 2015.

Allen, W., **Enkelmann, E.**, Dunn, C., Ridgway, K.D., 2015. Provenance of marine sediment in the Gulf of Alaska, IODP Expedition 341: Links between sediment derivation, glacial systems and exhumation of the coastal Mountain belts. AGU Annual Fall Meeting, San Francisco, December 2015.

Ridgway, K.D., **Enkelmann, E.**, Allen, W., Dunn, C. 2015. Neogene Tectonics and climatic records in the marine sedimentary strata of the St. Elias Mountains and the Gulf of Alaska. AGU Annual Fall Meeting, San Francisco, December 2015.

Hedeon, T., Finzel, E., **Enkelmann, E.**, 2015. Provenance response to flat-slab subduction as recorded in detrital zircon signatures from the southern Alaskan forearc basin. GSA Abstracts with Programs Vol. 47, No. 7, # 263471. GSA Annual Meeting, Baltimore, 1–4 November, 2015.

Enkelmann, E., Koons, P.O., Pavlis, T., Barker, A., Hallet, B., Elliott, J., Garver, J.I., Pavlis, G., Ruppert, N., 2015. Cooperation among tectonic and surface processes in the St. Elias Range; Earth's highest coastal mountains. GSA Abstracts with Programs Vol. 47, No. 7, # 261213; GSA Annual Meeting, Baltimore, 1–4 November, 2015.

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