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RESEARCH INTERESTS

Tectonics; Low-temperature thermochronology; Geochronology; Earth Surface Processes; Structural Geology; Fold-thrust belts; Foreland basins; Climatic and tectonic interactions; Deep-time carbon cycle; Evolution of Cratons; Himalayas; Central India geology; Southeast Asia tectonics; Proton irradiation of geological materials

EDUCATION

- 2016 – 2020** **PhD in Geological Sciences**
University of Hong Kong, Department of Earth Sciences
Dissertation: *From craton stabilization to continent-continent collision: Temporal and low-temperature thermal constraints on the long-term geologic evolution of central and northern India*
Advisor: Dr. N. Ryan McKenzie
Co-advisor: Dr. Alex Webb
- 2014 – 2016** **M.S. in Geological Sciences**
The University of Texas at Austin, Department of Geological Sciences
Thesis: *Geo-/Thermochronometric constraints on the Exhumation of the Lesser Himalaya of northwest India*
Advisor: Dr. Daniel Stockli
Co-advisor: Dr. Brian Horton
- 2009 – 2013** **B.S. in Geological Sciences with Honors**
The University of Texas at Austin, Department of Geological Sciences
Thesis: *Zircon U-Pb geochronology of subsurface basement samples from the Western Desert, Egypt*
Advisor: Dr. Daniel Stockli

PROFESSIONAL EXPERIENCE

- 2021 – Present:** **Postdoctoral Fellow**
University of Potsdam, Institute of Geosciences
Project: *Development and advancement of the $^4\text{He}/^3\text{He}$ methodology: Establishing rapid proton irradiation protocols for inducing uniform ^3He in minerals*
ERC Advanced Grant Funded COOLER Project
Supervisor: Dr. Peter van der Beek

TEACHING EXPERIENCE

- Since 2024** **Lecturer, University of Potsdam**
GEW-B-WP02: *Fundamentals of Structural Geology and Tectonics*
- 2016–2020** **Teaching Assistant, The University of Hong Kong**
EASC2402: *Field and Laboratory Methods*
EASC4955: *Integrated Field Studies (Geology Field Camp)*

2015–2016

Teaching Assistant, The University of Texas at Austin

GEO 660: *UT Undergraduate Geology Field Camp*

GEO 420K: *Introduction to Field Methods*

TECHNICAL EXPERIENCE

2021 – Present Development of the high-resolution, ultra-low temperature $^4\text{He}/^3\text{He}$ thermochronology lab at the University of Potsdam

2021 – Present Developing novel protocols for efficient proton irradiations on geologic materials

2016 – 2020 Zircon U-Pb and Hf isotopic LA-ICPMS-MC analyses at The University of Hong Kong

2018 Apatite U-Pb LA-ICPMS analyses at The Chinese University of Geosciences Wuhan

2017 – 2020 Craton zircon and apatite (U-Th)/He and zircon U-Pb analyses at the UTChron facilities at The University of Texas at Austin

2014 – 2016 Graduate Research Assistant, University of Texas at Austin: Assisted in (U-Th)/He and LA-ICP-MS analyses and training

2013 – 2014 Lab Technician, University of Texas at Austin: UTChron Geo-Thermochronology Lab

2011 – 2013 Undergraduate Research Assistant, University of Texas at Austin Mineral Separation Facilities

FIELD EXPERIENCE

August 2024 Zagros Mountains in the Kurdistan Region of Iraq (1 week)

August 2023 Central Eastern Alps of Austria and Italy (2 weeks)

July 2022 Jostedalbreen; Norway (2 weeks)

September 2021 Southern Colorado (1 week)

July 2021 Western Alps of Switzerland (1 week)

November 2019 Uttarakhand and Himachal Himalaya of NW India (3.5 weeks)

June 2019 Teaching Assistant for University of Hong Kong Montana Field Camp (4 Weeks)

December 2018 Southern Thailand (2 Weeks)

June 2018 Teaching Assistant for University of Hong Kong Montana Field Camp (3 Weeks)

January 2018 Bundelkhand craton/Vindhyan basin of Central India (3 Weeks)

August 2017 Northern Thailand (2 Weeks)

June 2017 Teaching Assistant for University of Hong Kong Montana Field Camp (3 Weeks)

December 2016 Southern Shan State, Myanmar (2 weeks)

June 2016 Teaching Assistant for Uni.of Texas and Uni. Hong Kong field camp throughout TX, NM, UT, WY, MT (6 Weeks)

October 2015 Uttarakhand Himalaya of NW India (2 weeks)

October 2015 30th Himalaya-Karakoram-Tibet pre-workshop field trip

June 2015 Teaching Assistant for University of Texas field camp across western USA (3 weeks)

April 2015 Class field trip to San Rafael Swell, Utah (1 week)

March 2015 Himachal Himalaya of NW India (2 weeks)

March 2015 Class field trip to Big Bend, Texas (1 week)

February 2015 Class field trip to the Andes of Argentina (2 weeks)

September 2014 Class field trip to Colorado and New Mexico (1 week)

August 2013 Himachal Himalaya of NW India- field assistant (2 weeks)

Summer 2012 University of Texas field camp student throughout TX, NM, WY, UT, MT (6 weeks)

AWARDS AND GRANTS

- 2024** German Research Foundation (DFG) Individual Research Grant (PI):
Resolving the pre-erosive extent and volume of the Deccan Large Igneous Province with low-temperature thermochronology: Implications for Earth's long-term carbon cycle
(€406,598/~\$437,000)
- 2019** University of Hong Kong Faculty of Science Excellent Teaching Assistant Award
- 2018** Hung Hing Ying Research Funds (30,000 HKD/~\$3,800)
- 2016** University of Hong Kong Faculty of Science Dean's Scholarship (42,100 HKD/~\$5,400)
- 2016** University of Hong Kong Postgraduate Scholarship (760,000 HKD/~\$97,000)
- 2015** ExxonMobil/GSA Student Geoscience Grant (\$7,500)
- 2015** ExxonMobil/GSA Student Geoscience Travel Grant (\$500)
- 2015** Geological Society of America Structural Geology & Tectonics Division Research Grant (\$500)
- 2015** Jackson School of Geoscience Grant Matching Program (\$1,000)
- 2015** Jackson School of Geoscience Off Campus Research Grant (\$3,000)
- 2013** Jackson School of Geosciences College Scholar
- 2012** Louis and Elizabeth Scherck Geology Scholarship
- 2011** W. Kenley Clark Memorial Endowed Presidential Scholarship
- 2010** Jackson School of Geoscience Undergraduate Merit Scholarship

PROFESSIONAL SERVICES

- November 2023** Invited participant to the DFG hosted Indo-German Week of the Young Research to be held in Dehradun, India.
- October 2023** Led a 1-day $^4\text{He}/^3\text{He}$ Thermochronology Workshop at the University of Potsdam
- April 2023** Session Convener at EGU General Assembly 2023
(GMPV1.2) Quantifying rates of geological processes: techniques and applications of geochronology and thermochronology (32 abstract submissions)
- Since 2021:** Organizer of the weekly Geology SMURF seminar at the University of Potsdam
- Since 2020:** Judge for Outstanding Student Poster award at AGU and EGU
- Since 2019:** Reviewer for the following journals (number of reviews indicated in parentheses):
Earth and Planetary Science Letters (10); *Tectonics* (7); *Geological Magazine* (4); *Journal of Asian Earth Sciences* (3); *Tectonophysics* (3); *Terra Nova* (2); *Geology* (1); *American Journal of Science* (1); *Geological Society of America Bulletin* (1); *Basin Research* (1); *Journal of Geophysical Research–Solid Earth* (1); *Journal of Geophysical Research–Earth Surface* (1);
- Since 2014:** Member of the following international professional communities:
European Geosciences Union; Geological Society of America; American Geophysical Union; Geochemical Society

PUBLICATIONS AND COMMUNICATION

Oral Presentations:

- August 2024** **Goldschmidt 2024 (Invited Talk)**
Advancing $^4\text{He}/^3\text{He}$ thermochronology with new proton irradiation protocols, geological calibrations, and novel applications
- December 2023** **China Earthquake Administration, Beijing, China (Virtual)**
 $^4\text{He}/^3\text{He}$ Thermochronology: Advantages, challenges, and future outlook

- November 2023** **2nd Indo-German Week of the Young Researcher, Derahdun, India**
Sediment provenance of Cretaceous–Paleogene strata from the frontal Himalaya of northwest India: Implications for India-Asia collision
- September 2023** **Thermo 2023 Riva del Garda, Italy**
Establishing a rapid proton irradiation protocol for $^4\text{He}/^3\text{He}$ thermochronology
- May 2023** **Freie Universität Berlin**
Development and advancement of $^4\text{He}/^3\text{He}$ thermochronology at the University of Potsdam
- April 2023** **European Geophysical Union General Assembly 2023**
Did Earth surface processes promote stabilization of the central Indian Bundelkhand craton?
- May 2022** **European Geophysical Union General Assembly 2022**
Synthesizing uniform ^3He concentrations in accessory minerals for $^4\text{He}/^3\text{He}$ thermochronology: Current status, complications, and prospects
- November 2021** **University of Potsdam**
Tracking the ancient low-temperature thermal evolution of the Bundelkhand craton of central India
- October 2021** **University of Calgary (Virtual)**
The advantage of detrital zircon and apatite (U-Th)/He data in extracting ancient thermal information from cratonic settings
- September 2021** **Thermo2021 Sante Fe, New Mexico**
Extracting ancient low-temperature thermal histories from complex basement and detrital zircon and apatite (U-Th)/He datasets: An example from the stable interior of central India
- March 2021** **University of Southern California, Department of Earth Sciences (Virtual)**
Tracking the long-term thermal evolution of the Bundelkhand craton of central India
- April 2019** **European Geophysical Union General Assembly 2019**
Low-temperature thermochronometric insight into the long-term burial and erosional evolution of the Bundelkhand craton of central India
- November 2018** **IGCP 668: Equatorial Gondwanan History and Early Palaeozoic Evolutionary Dynamics Meeting, Bangkok, Thailand**
Sediment continuity along the equatorial margin of Gondwana: Detrital zircon U-Pb insights from the Shan-Thai Terrane
- November 2018** **GSA Annual Meeting in Indianapolis, Indiana, USA**
Provenance of Cretaceous–Paleogene strata of northwest India: Detrital zircon geochronologic and Hf isotopic insights into the timing of India-Asia collision
- March 2016** **University of Hong Kong, Department of Earth Sciences (as visitor)**
Lesser Himalaya exhumation and implications for Neogene seawater chemistry
- July 2015** **Yale University, The Department of Geology and Geophysics**
Exhumation of the Lesser Himalaya of NW India: (U-Th)/He thermochronometric constraints and implications for the Neogene isotopic composition of seawater

Manuscripts in preparation:

Colleps, C. L., van der Beek, P., Amalberti, J., Bernard, M., and Tremblay, M., *(Re)calibrating the thermal evolution of the Fish Canyon Tuff with apatite $^4\text{He}/^3\text{He}$ thermochronology* (Intended to submit to *Geology*)

- Koran, I., Schoene, B., Wernette, S. J., Myrow, P. M., Sardsub, A., Ramezani, J., McKenzie, N. R., **Colleps, C. L.**, Shi, Z., and Hughes, N. C., Radiometric age constraints from Ko Tarutao, Thailand bracket the Cambrian–Ordovician boundary (Intended to submit to *Geology*)
- Liu, H., Garber, J., Smye, A. J., Stockli, D. F., **Colleps, C. L.**, Stockli, L. D., Wei, C., Cole, D., Planavsky, N. J., and McKenzie, N. R., *Statistical assessment of zircon trace elements tracks tectonic regime changes and continental crust evolution for ~4.4 billion years* (Intended to submit to *AGU Advances*)
- Bernard, M., van der Beek, P., Pedersen, V. K., and **Colleps, C. L.**, *The impact of Plio-Quaternary climate on glacial landscape morphology* (Intended to submit to *Science Advances*)
- Adeoti, B. A., Webb, A. A. G., Genge, M. C., Huang, Y., King, G. E., Herman, F., Bouscary C., Gemignani, L., McKenzie, N., **Colleps, C. L.**, *OSL thermochronology reveals extremely rapid exhumation along the Sutlej River valley, NW Indian Himalaya initiated by the late Pleistocene-Early Holocene climate shift* (Intended to submit to *Earth and Planetary Science Letters*)

Manuscripts in review:

- Nordsvan, A. R., Mitchell, R., Bauer, K., **Colleps, C. L.**, and McKenzie, N. R., *Modeling the stratigraphic record of glacioeustatic sea-level rise and sediment starvation following Snowball Earth* (In Revision: *Earth and Planetary Science Letters*)
- Nordsvan, A. R., Bauer, K., **Colleps, C. L.**, Khan, N., Mitchell, R., and McKenzie, N. R., *Decoding continental shelf morphology between icehouse and greenhouse climates* (In Review: *Nature Geoscience*)
- Cheung, C., McKenzie, N. R., Savage, P., Beaty, B., Bauer, K., **Colleps, C. L.**, Asael, D., Crowe, C., and Planavsky, N., *Evaluating bedrock and seasonal influences on silicate weathering processes in Hong Kong rivers* (In Review: *Geochimica et Cosmochimica Acta*)

Peer-reviewed publications:

- Colleps, C. L.**, van der Beek, P., Amalberti, J., Denker, A., Tremblay, M. M., Bernard, M., Dittwald, A., and Bundesmann, J., 2024, *Improving the efficiency of proton irradiations for $^4\text{He}/^3\text{He}$ Thermochronology*: Geochemistry, Geophysics, Geosystems: <https://doi.org/10.1029/2023GC011334>
- Erbello, A., **Colleps, C. L.**, Melnick, D., Sobel, E., Bookhagen, B., Pingel, H., Zeilinger, G., van der Beek, P., and Strecker, M. R., 2024, *Magma-assisted Continental Rifting: The Broadly Rifted Zone in SW Ethiopia, East Africa*: Tectonics: <https://doi.org/10.1029/2022TC007651>
- Nordsvan, A. R., McKenzie, N. R., **Colleps, C. L.**, Koch, A., and Khan, N. S., 2023, *Multivariant analysis of the sediment starved southeast Australian continental shelf*: Geological Society of America Bulletin: <https://doi.org/10.1130/B37019.1>
- Colleps, C. L.**, McKenzie, N. R., van der Beek, P., Guenther, W. R., Sharma, M., Nordsvan, A. R., and Stockli, D. F., 2022, *Tracking the long-term low-temperature thermal evolution of the Bundelkhand craton of central India*: American Journal of Science: <https://doi.org/10.2475/10.2022.01>
- Liu, H., McKenzie, N. R., **Colleps, C. L.**, Chen, W., Ying, Y., Stockli, L. D., Sardsub, A., Stockli, D. F., 2022, *Zircon isotope-trace element compositions track Paleozoic–Mesozoic slab dynamics and terrane accretion in Thailand*: Earth and Planetary Science Letters: <https://doi.org/10.1016/j.epsl.2021.117298>
- Colleps, C. L.**, McKenzie, N. R., Guenther, W. R., Sharma, M., Gibson, T. M., and Stockli, D. F., 2021, *Apatite (U-Th)/He thermochronometric constraints on the northern extent of the Deccan large igneous province*: Earth and Planetary Science Letters: <https://doi.org/10.1016/j.epsl.2021.117087>
- Colleps, C. L.**, McKenzie, N. R., Sharma, M., Liu, H., Gibson, T. M., Chen, W., and Stockli, D. F., 2021, *Zircon and apatite U-Pb age constraints from the Bundelkhand craton and Proterozoic strata of central India: Insights into craton stabilization and subsequent basin evolution*: Precambrian Research: <https://doi.org/10.1016/j.precamres.2021.106286>
- Capaldi, T. N., McKenzie, N. R., Horton, B. K., Mackaman-Lofland, C., **Colleps, C. L.**, and Stockli, D. F., 2021, *Detrital zircon record of Phanerozoic magmatism in the southern Central Andes*: Geosphere: <https://doi.org/10.1130/GES02346.1>

- Colleps, C. L.,** McKenzie, N. R., Horton, B. K., Webb, A. A. G., Ng, Y. W., and Singh, B. P., 2020, *Sediment provenance of pre- and post-collisional Cretaceous-Paleogene strata from the frontal Himalaya of northwest India*: Earth and Planetary Science Letters: <https://doi.org/10.1016/j.epsl.2020.116079>
- Colleps, C. L.,** Stockli, D. F., McKenzie, N. R., Webb, A. A. G., and Horton, B. K., 2019, *Neogene kinematic evolution and exhumation of the NW India Himalaya: Zircon geo- and thermochronometric insights from the fold-thrust belt and foreland basin*: Tectonics: <https://doi.org/10.1029/2018TC005304>
- Colleps, C. L.,** McKenzie, N. R., Stockli, D. F., Hughes, N. C., Singh, B. P., Webb, A. A. G., Myrow, P. M., Planavsky, N. J., and Horton, B. K., 2018, *Zircon (U-Th)/He Thermochronometric constraints on Himalayan thrust belt exhumation, bedrock weathering, and Cenozoic seawater chemistry*: Geochemistry, Geophysics, Geosystems: <https://doi.org/10.1002/2017GC007191>

Published Conference Abstracts (non peer-reviewed; * indicates oral presentation):

- Colleps, C. L.,** van der Beek, P., Amalberti, J., Bernard, M., Wapenhans, I., 2024, *Advancing $^4\text{He}/^3\text{He}$ thermochronology with new proton irradiation protocols, geological calibrations, and novel applications*: Goldschmidt Abstracts 2024*
- Colleps, C. L.,** van der Beek, P., Amalberti, J., 2024, *Evaluating the classic and distal Fish Canyon Tuff localities with apatite $^4\text{He}/^3\text{He}$ thermochronology*: EGU General Assembly 2024
- Bernard, M., van der Beek, P., Pedersen, V. K., Colleps, C. L., 2024, *Formation and preservation of low-relief surfaces by Plio-Quaternary glaciations in alpine settings*: EGU General Assembly 2024
- Wapenhans, I., van der Beek, P., Bernard, M., **Colleps, C. L.,** Amalberti, J., 2024, *Reconciling late Cenozoic spatio-temporal patterns of Alpine topographic changes from low-temperature thermochronology and glacial morphometric signatures*: EGU General Assembly 2024
- Wang, F., Sobel, E. R., van der Beek, P., Zhu, W., **Colleps, C. L.,** Gong, L., Rembe, J., Glodny, J., 2024, *New Constraints on Late Cenozoic Convergence between the Pamir and South Tianshan from Apatite (U-Th-Sm)/He Thermochronology*: : EGU General Assembly 2024
- Nordsvan, A. R., Mitchell, R., Bauer, K., **Colleps, C. L.,** McKenzie, N. R., *Predicting deglacial stratigraphy following Snowball Earth with 3D forward modelling*: EGU General Assembly 2024
- McKenzie, N. R., Liu, H., Garber, J., Smye, A. J., Stockli, D. F., **Colleps, C. L.,** Stockli, L. D., Wei, C., Cole, D., and Planavsky, N. J., *Multiproxy investigation of secular changes in tectonic regimes and crustal recycling in Earth history*: EGU General Assembly 2024
- Colleps, C. L.,** van der Beek, P., Amalberti, J., Tremblay, M. M., Denker, A., Dittwald, A. H., Bundesmann, J., Bernard, M., 2023, *Establishing a rapid proton irradiation protocol for $^4\text{He}/^3\text{He}$ Thermochronology*: Thermo 2023*
- Amalberti, J., van der Beek, P., **Colleps, C. L.,** Bernard, M., Wapenhans, I., 2023, *A diode laser Controlled Apparatus for high-precision step heating experiments for $^4\text{He}/^3\text{He}$ thermochronometry*: Thermo 2023
- Bernard M., van der Beek P., Braun J., Robert X., **Colleps C. L.,** 2023, *PecubeGUI: A user interface for Pecube including sample-specific multi-kinetic thermochronometer predictions*: Thermo 2023
- van der Beek P., Amalberti J., Bernard M., **Colleps C. L.,** Wapenhans I., 2023, *Quantifying glacial relief development using $^4\text{He}/^3\text{He}$ thermochronology: An update from the COOLER project*: Thermo 2023
- Wapenhans, I., van der Beek, P., **Colleps, C. L.,** Bernard, M., Amalberti, J., 2023, *Low-temperature thermochronometric constraints on late Cenozoic glacial erosion in the eastern Alps*: Thermo 2023
- Genge, M., Adeoti, B., Huang, Y., Webb, A.A.G., Wang, F., Wu, L., Zeitler, P., Thiede, R., Colleps, C. L., Patrick, S., McKenzie, N.R., 2023, *Increased erosion along the Sutlej river, NW India Himalaya, at < 1 Ma revealed by apatite (U-Th)/He thermochronology data*: Thermo 2023
- Colleps, C. L.,** McKenzie, N. R., Chen, W., Sharma, M., 2023, *Did Earth surface processes promote stabilization of the central Indian Bundelkhand craton?*: EGU General Assembly 2023*

- Amalberti, J., van der Beek, P., **Colleps, C. L.**, Bernard, M., and Wapenhans, I., 2023, *New high-resolution step heating experiments using a coupled Diode laser and thermocouple for thermochronology applications*: EGU General Assembly 2023
- Bernard, M., van der Beek, P., **Colleps, C. L.**, and Amalberti, 2023, *Spatial and temporal distribution of glacial erosion as recorded by apatite (U-Th)/He and $^4\text{He}/^3\text{He}$ thermochronology*: EGU General Assembly 2023
- Colleps, C. L.**, van der Beek, P., Denker, A., Amalberti, J., Dittwald, A., Bundesmann, J., and Bernard, M., 2022, *Improving the efficiency of proton irradiations for $^4\text{He}/^3\text{He}$ Thermochronology*: American Geophysical Union, Fall Meeting 2022
- Colleps, C. L.**, and McKenzie, N. R., *Tracking the pre-erosive extent and volume of the Deccan Large Igneous Province with Thermochronology*: American Geophysical Union, Fall Meeting 2022
- Erbello, A., Melnick, D., Sobel, E., Bookhagen, B., Pingel, H., **Colleps, C. L.**, Zeilinger, G., van der Beek, P., and Strecker, M.R., 2022, *Magma-assisted continental rift evolution: The Broadly Rifted Zone of SW Ethiopia, East Africa*: American Geophysical Union, Fall Meeting 2022
- Nordsvan, A. R., McKenzie, N. R., **Colleps, C. L.**, Bauer, K. W., and Khan, N. S., 2022, *Multivariant Analysis of Continental Shelf Morphology at Passive Margins*: : American Geophysical Union, Fall Meeting 2022
- Young, E. K., Oskin, M. E., Stockli, D. F., **Colleps, C. L.**, and Chatterjee, R., 2022, *Early rifting exposed: Rapid sedimentation, faulting, and thermal evolution of the northern Gulf of California Rift recorded in the Fish Creek-Vallecito Basin*: American Geophysical Union, Fall Meeting 2022
- Young, E. K., Oskin, M. E., **Colleps, C. L.**, Stockli, D. F., and Chatterjee, R., 2022, *Using apatite (U-Th)/He data to document the history of subsidence, uplift, and thermal conditions of the Fish Creek-Vallecito Basin within the northern Gulf of California Rift*: GSA Abstracts with Programs
- McKenzie, N. R., Liu, H., **Colleps, C. L.**, and Nordsvan, A. R., 2022, *Multiproxy evaluation of tectonic regime variability and crustal reworking throughout Earth history*: Goldschmidt Abstracts 2022
- Colleps, C. L.**, van der Beek, P., Amalberti, J., and Bernard, M., 2022, *Synthesizing uniform ^3He concentrations in accessory minerals for $^4\text{He}/^3\text{He}$ thermochronology: Current status, complications, and prospects*: EGU General Assembly 2022*
- Amalberti, J., van der Beek, P., **Colleps, C. L.**, and Bernard, M., 2022, *New high-resolution $^4\text{He}/^3\text{He}$ laboratory at the University of Potsdam: Toward standardized approaches for efficient and reliable routine $^4\text{He}/^3\text{He}$ analyses for thermochronology applications*: European Geophysical Union General Assembly 2022
- Bernard, M., van der Beek, P., **Colleps, C. L.**, and Amalberti, J., 2022, *PecubeGUI: a new graphical user interface for Pecube, introduction and forward modelling of (U-Th)/He and $^4\text{He}/^3\text{He}$ data on apatite in the Rhone valley, Switzerland*: EGU Assembly 2022
- Webb., A. A. G., McKenzie, N. R., **Colleps, C. L.**, Costantino, D., Adeoti, B., Huang, Y., Hunt, H., and Patrick, S., 2021, *The Himalaya vs. the World*: American Geophysical Union, Fall Meeting 2021
- Colleps, C. L.**, McKenzie, N. R., van der Beek, P., Sharma, M., Guenther, W. R., and Stockli, D. F., 2021, *Extracting ancient low-temperature thermal histories from complex basement and detrital zircon and apatite (U-Th)/He datasets: An example from the interior of central India*: Thermo2021*
- Liu, H., McKenzie, N. R., **Colleps, C. L.**, Chen, W., Ying, Y. C., Stockli, L., Sardisud, A. and Stockli, D. F., 2021, *Tracking Permian–Triassic tectonic transitions in Thailand via detrital zircon U-Pb ages, Hf isotopes and trace elements*: Goldschmidt Abstracts 2021
- Colleps, C. L.**, McKenzie, N. R., Guenther, W. R., Sharma, M., and Stockli, D. F., 2019, *Deccan Traps thermal overprint on zircon and apatite (U-Th)/He dates from the Bundelkhand craton of central India*: Goldschmidt Abstracts 2019

- Liu, H., McKenzie, N. R., Smye, A. J., **Colleps, C. L.**, Stockli, L. D., and Stockli, D. F., 2019, *Zircon Trace Element Compositions as a Proxy for Continental Crust Evolution*: Goldschmidt Abstracts 2019
- Colleps, C. L.**, McKenzie, N. R., Guenther, W. R., Sharma, M., and Stockli, D. F., 2019, *Low-temperature thermochronometric insight into the long-term burial and erosional evolution of the Bundelkhand craton of central India*: EGU General Assembly 2019*
- Colleps, C. L.**, Hughes, N. C., Myrow, P. M., White, T., Wernette, S., Aung, A. K., Sardud, A., and McKenzie, N. R., 2018, *Sediment continuity along the equatorial margin of Gondwana: Detrital zircon U-Pb insights from the Shan-Thai Terrane*: IGCP 668: Equatorial Gondwanan History and Early Paleozoic Evolutionary Dynamics Meeting, Bangkok, Thailand*
- Colleps, C. L.**, McKenzie, N. R., Horton, B. K., and Webb, A. A. G., 2018, *Provenance of Cretaceous–Paleogene strata of northwest India: Detrital zircon geochronologic and Hf isotopic insights into the timing of India-Asia collision*: Geological Society of America, Abstracts with Programs*
- Colleps, C. L.**, McKenzie, N. R., Stockli, D. F., Webb, A. A. G., Horton, B. K., and Singh, B. P., *Zircon (U-Th)/He thermochronometric constraints on the exhumation of ¹⁸⁷Os enriched Lesser Himalayan strata of northwest India and implications for Cenozoic seawater chemistry*: American Geophysical Union, Fall Meeting 2016
- McKenzie, N. R., Planavsky, N. J., **Colleps, C. L.**, Stockli, D. F., and Singh, B. P., Kalderon-Asael, B., Reinhard, C. T., 2016, *Tracking the long-term carbon cycle in Earth history: Himalayan anecdotes*: Goldschmidt Abstracts 2016
- Colleps, C. L.**, McKenzie, N. R., Stockli, D. F., Singh, B. P., Webb, A. A. G., Hughes, N. C., and Myrow, P. M., 2015, *Zircon (U-Th)/He Thermochronometric constraints on the exhumation of the Lesser Himalaya of Northwest India and implications for Neogene seawater evolution*: GSA, Abstracts with Programs
- Colleps, C. L.**, McKenzie, N. R., Stockli, D. F., Singh, B. P., Webb, A. A. G., Hughes, N. C., Myrow, P. M., and Horton, B. K., 2015, *Exhumation of the Lesser Himalaya of Northwest India: Zircon (U-Th)/He thermochronometric constraints and implications for Neogene seawater evolution*: 30th Himalaya-Karakoram-Tibet Workshop Dehradun, India
- McKenzie, N. R., Hughes, N. C., Myrow, P. M., Singh, B. P., Jiang, Q., Planavsky, N. J., Webb, A. A. G., **Colleps, C. L.**, Banerjee, D. M., Deb, M., and Stockli, D. F., 2015, *Constraints on the stratigraphic architecture of the Uttarakhand-Himachal Lesser Himalaya: implications for the evolution of the North Indian Margin*: 30th Himalaya-Karakoram-Tibet Workshop Dehradun, India

Non peer-reviewed software released:

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