

CURRICULUM VITAE

ERIC C. FERRÉ

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EDUCATION

Université Paul Sabatier, Toulouse, France

2000 Habilitation, Geology
 1989 PhD in Geology, with Honors
 1985 MSc in Geology, with Honors
 1984 BSc in Geology, with Honors

EMPLOYMENT

Department of Geological Sciences, New Mexico State University

2024-date Department Head, Geological Sciences, Full Professor

School of Geosciences, University of Louisiana at Lafayette, Lafayette, Louisiana, USA

2018-2024 Director, School of Geosciences, Full Professor

Larry Hensarling & Roger Chapman Endowed Professorship

Department of Geology, Southern Illinois University (SIU), Carbondale, Illinois, USA

2010-2018 Full Professor

2006-2010 Associate Professor

2002-2006 Assistant Professor, tenured in 2006

University of Wisconsin, Madison, Wisconsin, USA

2001-2002 Research Associate

Rhodes University, Grahamstown, Eastern Cape, South Africa

1999-2001 Associate Professor

1996-1999 Assistant Professor, tenured in 1999

Other Appointments

2015 (Fall) Invited Professor, Department of Earth Sciences, ETH- Zürich, Switzerland

2009 (Spring) Invited Professor, University of Montpellier, France

2000 (Spring) Invited Professor, University of Minnesota, Minneapolis, USA

1990-1995 Program Director, Geoscience Development, French Foreign Affairs, Nigeria

1989-1990 Post-doctoral Fellow of the British Council, Glasgow University, U-K

PROFESSIONAL SERVICE

2024-2025 Associate Editor: *Journal of Structural Geology* (15 papers)

2023-date Geological Society of America - Arthur L. Day Medal Award Committee Member

2022-date Associate Editor: *Frontiers in Earth Sciences* (2 papers)

2019-2022 Member, GSA Penrose Conferences & Thompson Field Forums Committee

2017-2020 Member, U.S. Advisory Committee for Scientific Ocean Drilling (USAC)

2017-2020 Member of the GSA Committee to revitalize Penrose Field Conferences

2004-2018 Director of Geology Field Camp and Undergraduate Program Director at SIU

2013-2015 Panel Member of the NSF Graduate Research Fellowship Program

2013-2016 Panel Member of the International Ocean Discovery Program Science Evaluation

2008-2016 Associate Editor: *Journal of Geophysical Research: Solid Earth* (handled 113 papers)

2013-2015 Associate Editor: *Geology* (60 papers)

2006-2009 Associate Editor: *Bulletin of the Geological Society of America* (32 papers)

NOTEWORTHY ACCOMPLISHMENTS

- 111 articles in peer-reviewed journals, *h*-index (Scholar) = 40, 5,069 citations (Scholar)
- 10 invited presentations at international conferences
- Selected 4x to sail on IODP Exp. 335, 352, 368, & 396: Structural geologist & paleomagnetist

INTERNATIONAL OCEAN DISCOVERY PROGRAM (IODP) - SERVICE

2022	IODP Expedition 396, Editorial Meeting, College Station, TX
2021-2022	Ocean Discovery Lecturer for 2021-2022 academic year (6 lectures)
2020	Host of the <i>In Search of Earth Secrets</i> exhibition at the Lafayette Science Museum
2019	NEXT Workshop, Scientific Drilling beyond 2023, Denver, CO
2019	New Caledonia Amphibious Drilling Workshop, Montpellier, France
2017-2020	Member, U.S. Advisory Committee for Scientific Ocean Drilling (USAC)
2017	Shipboard scientist on Expedition 368, South China Sea Rifted Margin
2013-2016	Member, Science Evaluation Panel (SEP)
2016	Brazilian Equatorial Margin Workshop II, Ubatuba, Brazil
2014	Shipboard scientist on Expedition 352, Izu-Bonin subduction initiation
2013	Organizer Expedition 335 2 nd post-cruise meeting in Corsica, France
2012	Featured in <i>Core Discovery</i> Fall 2012, Community Spotlight
2012	Panel Member, IODP Workshop on Building U.S. Strategies 2013-2023
2012	Shore-based scientist Expedition 345, Hess deep, East Pacific Rise
2011	Shipboard scientist on Expedition 335, Superfast spreading, East Pacific Rise
2011	Igneous core description, <i>DescLogik</i> workshop, College Station, TX

INVITED SEMINARS (SINCE 2003)

2025	University of Texas, El Paso, TX, USA
2023	International Ocean Discovery Program - Geomar, Kiel, Germany
2020	Baton Rouge Geological Society, LA, USA
2019	Louisiana State University, LA, USA
2018	University of Kentucky, KY, USA
2018	CEREGE, University of Aix-en-Provence, France
2018	University of Louisiana at Lafayette, LA, USA
2018	National Science Foundation, Alexandria, VA, USA
2017	Çukurova University, Adana / Kahramanmaraş Sütçü İmam University, Turkey
2017	Chinese Academy of Geological Sciences, Beijing
2017	Iowa State University, IA, USA
2015	Virginia Tech, VA, USA
2015	Academia Sinica, National Taiwan University, Taiwan
2015	Institute for Rock Magnetism, University of Minnesota, Minneapolis, MN, USA
2014	University of Texas A & M, TX, USA
2014	University of Plymouth, U-K
2014	University of Texas, El Paso, TX, USA
2014	University of Wisconsin, Oshkosh, USA
2013	University of Canterbury, New Zealand
2013	University of North Carolina, Chapel Hill, USA
2012, 2005	University of Oslo, Norway
2012	National Taiwan University, Taiwan
2010	CEREGE, University of Aix-Marseille, France
2009, 2003	University of Montpellier, France
2009	University of Nantes, France
2009	University of Saint-Etienne, France
2007, 2005	Institute for Research and Development, New Caledonia
2006	University of Pittsburgh, PA, USA

2005	University of Memphis, TN, USA
2005	Oklahoma State University, OK, USA
2004	University of Southern California, CA, USA
2004	Washington University in Saint-Louis, MO, USA
2003	University of Illinois Urbana-Champaign, IL, USA
2003	Shizuoka University, Japan

CONTINUED MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- American Geophysical Union (since 2000), Geological Society of America (since 1998), European Geoscience Union (since 1994), National Association of Geoscience Teachers (since 2004), Sigma Xi (since 2007)

FIELDS OF RESEARCH / KEY METHODOLOGIES

- Seismic deformation and electromagnetism, deep lithospheric magnetic sources, heat transfer in the oceanic crust, rheology of the upper mantle and lower crust
- Rock magnetism, paleomagnetism, forward modeling of magnetic anomalies, 3-D image analysis for petrofabric studies, lattice-preferred orientation, microstructural petrography

RECENT UNIVERSITY AND DEPARTMENT SERVICE

Service to New Mexico State University

2025	President Economic Development Cabinet
2024	Provost Awards Committee

Service to the University of Louisiana at Lafayette

2023	Search committee for Faculty position in Environmental Science
2023	Search committee for Faculty position in Structural Geology
2023	Coordinator of Research Microscopy Facilities (SEM and optical, HH324)
2023	Field Camp Director, including maintenance of vehicles and trailers
2023	Coordinator of Petrographic and Rock cutting Facilities
2023	Complete restructuring and sorting of rock and mineral collections (HH220)
2021	Graduate Faculty Representative on an external PhD Committee
2019-2020	Diversity Advisory Committee, member
2019-date	Graduate Council, member

Service to Southern Illinois University (SIU)

2012	Search Committee for the Dean of Education, member
2010-2018	Review Panel for Masters Fellowships, member
2007-2018	PhD Admissions & Review Committee for the ERP program, member
2002-2018	Outstanding Thesis Committee, member

Service to the Department of Geology at SIU

2012-2018	Undergraduate Studies, director
2004-2018	Geology Field Camp, director
2011-2015	Space Committee, member
2010	Petrology Search Committee, chair
2002-2018	Speakers Committee, 2004, 2007, 2010, 2011, and 2012, chair
2002-2012	Geology Club, advisor
2002-2008	Scholarship and Fellowship Committee, chair in 2005
2002-2008	Web Page Committee, member

OUTREACH ACTIVITIES

2025	Visits to area high schools and primary schools
2024	Visits to area high schools and primary schools
2022&2023	Presentations at the <i>Lafayette Geological Society</i>
2018-2023	Preview Day (9/16/23)
2018-present	Regular participation in <i>Science on the Bayou</i> seminars

2020	<i>Skype a Scientist</i> with McKinley Middle Academic Magnet in Baton Rouge
2020	<i>In Search of Earth's Secrets</i> IODP exhibition at the Lafayette Science Museum
2015	Geology of Southern Illinois and fracking, Union County, Illinois
2014	Live broadcasts at sea with secondary schools, from IODP Expedition 352
2013	Environmental Geology day at SIU for Carbondale high school
2012	Guided tour of Southern Illinois for a religious group of teenagers
2012	Article about Geology Field Camp for Geology.com
2011	Live broadcasts at sea with secondary schools, from IODP Expedition 335
2007	Guided tour on the geology of Southern Illinois for a Japanese high school
2004-2014	Little Egypt Grotto (spelunking organization): scientific seminars
2004-2018	Unity Point Secondary School, Carbondale, IL: Presentations on volcanoes and earthquakes, application for loan of an IRIS seismometer

RESEARCH COLLABORATIONS

USA: Stanford (Ernst), Johns Hopkins (Marsh), Wisconsin-Madison (Tikoff), Illinois-Urbana Champaign (Lundstrom, Marshak), Minneapolis (Teyssier, Jackson, Feinberg), Arizona (Persaud), Texas-Dallas (Geissman), Texas-Austin (Catlos), Boston (Kruckenberg), Virginia Tech (Law)

Canada: British Columbia (Christensen)

Switzerland: ETH-Zürich (Hirt), Bern (Biedermann)

United Kingdom: Oxford (Searle), Leeds (Lloyd), Liverpool (Hill), Plymouth (Morris)

Norway: Oslo (Planke, Polteau, Galland), Trondheim (McEnroe)

France: Toulouse (De Saint Blanquat), Aix-Marseille (Gattacecca, Rochette), Montpellier (Ionov, Caby, Vauchez, Tommasi), Nancy (Vanderhaeghe)

Italy: Padova (Di Toro), Roma (Spagnuolo), Chieti-Pescara (Satolli)

Spain: Madrid (Martín-Hernández), Granada (Garrido)

Japan: Kyoto (Lin), Tsukuba (Anma), Kanazawa (Arai), Hokkaido (Python)

Taiwan: National Taiwan University (Yeh)

China: Beijing (Haibing Li, Caicai Liu, Dongliang Liu), Shenzhen (Chou)

South Africa: Rhodes (Marsh), Council for Geoscience (Mare)

GRADUATE STUDENTS ADVISED (AS MAIN ADVISER)

New Mexico State University

Luke Horsu (MSc, 2025)

University of Louisiana at Lafayette: Elham Hosseinzadehsabeti[#] (PhD, 2021), Abigail Choisser (MSc, 2021), Nina Zamanialavijeh (MSc, 2021), Haley Magliari (MSc, 2023), Michael Young (MSc, 2023), David Starkovich (MSc, 2025), Haley Benoit (MSc, 2025), Victoria Sanchez (MSc, 2025), Luke Horsu (MSc, 2025)

SIU, Carbondale, USA: Geraldine Nzokwe[#] (MSc, 2005), Matthew Zechmeister^{*} (MSc, 2005), Jen Kelley[#] (MSc, 2007), France Belley[#] (MSc, 2008), Michael Marsh^{*} (MSc, 2010), Sarah Friedman[#] (MSc, 2011), Lulu Tsige[#] (MSc, 2011); Kevin Butak (MSc, 2012), Nathaniel Liodas (MSc, 2012), France Belley-Biswas[#] (PhD, 2012), Jarek Trela (MSc, 2013), Elif Uz[#] (MSc, 2013), Gerhard Heij (MSc, 2014), Sarah Friedman[#] (PhD, 2015), Caitlyn Korren[#] (MSc, 2015), Joseph Wnukowski (MSc, 2015), Natalie Leibovitz[#] (MSc, 2016), Andrea Meado[#] (MSc, 2017), John Ejembi[#] (PhD, 2018), Elham Hosseinzadehsabeti[#] (PhD, 2019~)

^{*} Denotes GSA Geophysical Division, Allan V. Cox Award

[#] Denotes underrepresented minorities in the Science & Engineering fields (based on NSF criteria)

Rhodes University, Grahamstown, South Africa: Cécile Bordarier (MSc, 2000)

University of Jos, Jos, Nigeria: Ishiaya Kwada (MSc, 1994), Paulinus Nnabo (MSc, 1994), Deborah Nykwagh (MSc, 1995), Jacqueline Délérís (PhD, 1996)

PHD AND MSC COMMITTEE MEMBER

New Mexico State University

Amit Millo (MSc, 2025)

University of Louisiana at Lafayette: MSc of Olawale Ariyibi and Brock Smith, 2019-2020, MSc of Kristen Morris, 2019-2021, MSc of Gracie Babineaux and Michael Young, 2021-2022, MSc of Niya Davis, Corey Diley, Isa Cole, and Danielle Noto (2022-2023), Funmi Babaola (2023-2025)

Centre d'Etudes et Recherches sur l'Environnement CEREGE, Université d'Aix Marseille, France: External examiner for PhD dissertation of N. Launay, 2018 (Adviser P. Rochette)

University of Johannesburg, South Africa: External examiner for PhD dissertation of Léonie P. Maré, 2015 (adviser Dr. M. De Kock)

ETH Zurich, Switzerland: External examiner for PhD dissertation of Andrea Bierdermann, 2014 (adviser Dr. A.M. Hirt)

National Taiwan University, Taipei, Taiwan: External examiner for PhD dissertation of Yu-Min Chou, 2012 (adviser Dr. S.R. Song)

Cergy Pontoise University, Cergy, France: External rapporteur for PhD dissertation of Yu-Min Chou, 2012 (adviser Dr. C. Aubourg)

University of Otago, Dunedin, New Zealand: External examiner for PhD dissertation of Giulia Airolidi, 2010 (adviser Dr. J. White)

Southern Illinois University, Carbondale, USA: 25 MSc and 5 PhD committees

RESEARCH GRANTS SINCE 2002 (LEAD PRINCIPAL INVESTIGATOR ON ALL)

United States National Science Foundation (NSF)

- Origin of high magnetic remanence in fault pseudotachylytes; EAR-0228818, \$110,452; 2003-2004
- Fabric and seismic anisotropy within the lithospheric mantle: Magnetic / petrofabric studies of shear zones in the New Caledonia ophiolite; EAR-0337458, \$61,899; 2004-2006
- Acquisition of a vibrating sample magnetometer for the Rock Magnetism Laboratory at SIU; EAR-0521558, \$156,960 (+ \$5,200 supplement); 2005-2008
- Magma dynamics in sill and dike systems: Constraints from magnetic fabrics and paleomagnetism in the Karoo Large Igneous Province; EAR-0738725, \$163,851; 2008-2010
- Identification of magnetic sources in the upper mantle; EAR-1345105, \$225,000; 2014-2017
- GSA Penrose Conference on Layered Mafic Intrusions; EAR-1621858, \$20,000; 2016
- Acquisition of a tabletop SEM / EDS system at the University of Louisiana at Lafayette; EAR-2041040, \$162,850; 2021
- Acquisition of a tabletop SEM / EDS system at New Mexico State University; Instrumentation and Facilities, submitted, \$197,700; 2025

International Ocean Discovery Program (IODP)

- Expedition 335 - Superfast Spreading Rate Crust 4; \$65,000; 2010-2012
- Expedition 352 - Izu-Bonin-Mariana fore arc; \$65,000; 2014-2016
- Expedition 368 - South China Sea Rifted Margin; \$70,000; 2018-2020
- Expedition 368/368X - South China Sea Rifted Margin; \$7,010; 2019-2020
- Expedition 396 - Mid-Norwegian Continental Margin Magmatism; \$95,204; 2021-2022
- Expedition 405 - Tracking Tsunamigenic Slip Across the Japan Trench; pending; 2024-2025
- USSSP: Novel Projects in Support of Scientific Ocean Drilling - Examining the geological record of oceanic intraplate seismicity through IODP Legacy Cores; \$50,000; 2024-2025

Other grants

- SIU: Seed funding - Testing the "Clutch Tectonics" model; \$10,000; 2003
- Illinois State Geological Survey: Hicks Dome fabrics; \$5,000, 2005
- National Geographic Society: The strength of the oceanic lithosphere; \$16,800; 2006-2007
- SIU: Undergraduate Research Grant - Magma flow pattern in the Karoo LIP; \$7,900; 2011
- SIU: Seed funding - Long wavelength satellite magnetic anomalies; \$40,000; 2012

- SIU: Identification of magnetic sources in the upper mantle (match); \$25,000; 2014-2015
- ULL: Applications of Hyperspectral Microscope and Macro-Imaging Systems in Earth Science; \$10,000; 2023-2024
- Statewide California Earthquake Center: "Significance of frictional melts and their kinematics during seismic rupture: example from extensive pseudotachylyte networks in the Santa Rosa Mountains, California", \$31,105, 2025 (pending).

EVALUATION OF MANUSCRIPTS FOR JOURNALS AND PROPOSALS FOR AGENCIES

- **Reviewer of >203 manuscripts**

ACS Earth and Space Chemistry, Basin Research, Bulletin of the Geological Society of America, Chemical Geology, Communications in Earth and Environment (Nature), Earth and Planetary Science Letters, Elements, Frontiers Earth Sciences, Geology, Geophysical Journal International, Geophysical Research Letters, GSA Books, Geochemistry-Geophysics-Geosystems (G3), Gondwana Research, Journal of African Earth Sciences, Journal of Asian Earth Sciences, Journal of South American Earth Sciences, Journal of Geophysical Research: Solid Earth, Journal of Structural Geology, Journal of the Geological Society, Journal of Volcanology and Geothermal Research, Lithos, Lithosphere, Marine and Petroleum Geology, Nature, Nature Communications, Nature Geoscience, Physics of the Earth and Planetary Interiors, Precambrian Research, Quaternary International, Science, Science Advances, Sedimentary Geology, Studia Geophysica et Geodaetica, Swiss Journal of Geosciences, Tectonics, and Tectonophysics.

- **Reviewed over 66 funding proposals**

National Science Foundation, Natural Sciences and Engineering Research Council of Canada, Québec Research Foundation, Israel Science Foundation, Deutsche Forschungsgemeinschaft, Fondazione Cariplo, Netherlands Organization for Scientific Research, Irish Research Council for Science, Czech Science Foundation, South African National Research Foundation, French Polar Scientific Expeditions.

- **Outstanding Reviewer for *Journal of Structural Geology* (2016)**
- **Outstanding Reviewer for *Tectonophysics* (2008)**

SYNERGISTIC ACTIVITIES

- **IODP International Collaboration (Italy-USA-Japan) on Japan Trench Fault Rocks – 2024-2025**
- **Outstanding Student Presentation Award judge at AGU meetings 2018 to 2023**
- **Lead organizer of GSA Penrose Conf. 2016 Layered mafic intrusions & associated deposits**
- **Contributor to NSF Tectonics workshop 2017** (Huntington, K.W. and Klepeis, K.A., 2018. doi.org/10.6069/H52R3PQ5)
- **Co-Guest Editor of four Special Issues**

Tectonophysics: Seismic Deformation of Carbonates: Laboratory Insights vs Field Observations, 2025
Journal of Structural Geology: Thermochronological & Magnetic Advances on Faulting Processes, 2024
Frontiers: Advances in Magnetism of Soils and Sediments, 2021
Tectonophysics: Crustal and mantle magnetic anomalies, 2014
Lithos: Layered mafic intrusions: physical and chemical processes, 2009
Tectonophysics: Pseudotachylytes and seismogenic friction, 2005

- **Session Convener at American Geophysical Union annual conference**

Thermochronological & Magnetic Advances on Faulting Processes, 2023
Magnetism of sediments, soils and organisms, and how they are influenced by changing geomagnetic fields and the environment, 2019
The physical properties of fault rocks, 2015
Paleomagnetism and magnetic fabrics applied to geologic problems, 2013
Crustal and mantle sources of magnetic anomalies, 2012
Recent progress in magnetic fabrics and applications to earth sciences, 2010
Partial melting and deformation processes in continental lithosphere, 2009
Magnetic properties and behavior of single crystals and their inclusions, 2008
Physical and chemical processes in layered mafic intrusions, 2007
The elusive subcontinental mantle: its history, deformation and anisotropy, 2005

- **Session Co-Convener at Geological Society of America annual conference**

Seismogenic friction and pseudotachylytes, 2003

AMS of granitic rocks: New developments, interpretations and challenges, 2002

- **Session Co-Convener at the Fifth Hutton Symposium**

Structural and tectonics controls of granite emplacement, Toyohashi, Japan, 2003

BOOK REVIEWS

- Hatcher and Bailey's *Structural Geology*, Oxford University Press, 2016
- Clarke, Stimpson and Leslie's *Advanced Geological Mapping*, Wiley, 2013
- Fossen's *Structural Geology* 1st ed., Cambridge Press, 2010
- Marshak's *Portrait of a Planet* 3rd ed., Norton Publishing, 2009

CONSULTING EXPERIENCE

- Stallard Scientific Editing, New Zealand: scientific editing of manuscripts, 2011-2012
- De Beers, Venetia Mine, South Africa: open pit slope stability, 2000-2001
- Falconbridge Ventures, South Africa: structural geology of Karoo intrusives, 1998-2001
- Rossing Uranium Mine, Namibia: open pit slope stability, 1997-2000
- GoldFields, South Africa: structural geology of the Bushveld granites, 1996-1998

TEACHING EXPERIENCE

Teaching interests and specialties: Structural Geology, Tectonics, Field Geology, Rock Magnetism, Paleomagnetism, Environmental Magnetism, Geologic Remote Sensing

New Mexico State University (2024-present)

- GEOL1110G Physical Geology
- GEOL449 The Geology Profession
- GEOL320/520 Special Topics in Tectonics

University of Louisiana at Lafayette (2018-present)

Teaching load: 4 courses/year

- GEOL105 Geology and Man
- GEOL400 Field camp
- GEOL450G Landscape Evolution
- GEOL480 Remote Sensing Geology
- GEOL498G Field Geology
- GEOL499 Geology Seminar
- GEOL511 Environmental Magnetism
- EESC604 Research Challenges in Earth and Energy Sciences
- ENV5457/501 Environmental magnetism

Southern Illinois University at Carbondale (2002-2018)

Teaching load: 3 to 4 courses/year and 6 weeks of field camp

- GEOL110 Geology and the Environment
- GEOL113 Geology Field Trips
- GEOL302 Structural Geology
- GEOL420 Petroleum Geology
- GEOL438 Potential Fields Geophysics
- GEOL440 Independent Study

- GEOL451 Field Experience in Geology (in California)
- GEOL454 Field Geology (in Montana, Wyoming, Idaho)
- GEOL466 Tectonics
- GEOL484/577 Geologic Remote Sensing
- GEOL535A Rock Magnetism and Paleomagnetism
- GEOL535B Environmental Magnetism
- GEOL591 Independent Study
- ERP500 Plate Tectonics
- ERP598 Seminars in Tectonics
- UHON351 Mars, our next home?

University of Wisconsin-Madison (2001-2002)

- GEOL875 Rock Magnetism and Paleomagnetism

University of Minnesota-Minneapolis (2000)

- GEOL850 Rock Magnetism and Paleomagnetism

Rhodes University, South Africa (1996-2000)

- Geophysics
- Deformation Mechanisms
- Structural Geology
- Geodynamics
- Geologic Remote Sensing

University of Jos, Nigeria (1990-1995)

- Advanced Geological Remote Sensing
- Stress and Strain Analysis
- Igneous and Metamorphic Petrology
- Optical Mineralogy

University of Glasgow, Scotland (1990)

- Igneous and Metamorphic Petrology, laboratory and field trips
- Metamorphic Petrology, Structural Geology and Mapping, laboratory and field trips

PUBLICATIONS

Manuscripts in Preparation

- Ferré, E.C., Michibayashi, K., Morgan, S., Christeson, G., Petronotis, K., Reagan, M.K., Pearce, J.A., and Godard, M. Shallow magnetic sources in the Izu-Bonin forearc volcanics: Results from IODP Expedition 352. *Tectonophysics*.
- Persaud, P., Ferré, E.C., Straub, S., Kitajima, H., Dorais, M., Gomez Tuena, A., Mallick, S., and Stock, J. Implications for Rift Initiation in the South China Sea from the Anisotropic Properties of Paleozoic Mylonites. *Science Advances*.
- Satolli, S., Wu, H., and Ferré, E.C. Magnetic fabric in rift sediments from IODP Expedition 368 in South China Sea. *Geophysical Journal International*.
- Liu, Q., Zheng, J., Li, Z., Yang, T., Ping, X., Giffin, W.L., Frost, B.R., and Ferré, E.C. Paleoproterozoic magnetic continental lower crust. *Geophysical Research Letters*.
- Satolli, S., Wu, H., and Ferré, E.C. New results from IODP Sites 1502 and U1504 in the South China Sea: Towards an improved Early Miocene to Pliocene magnetostratigraphic age model. *PLoS One*.
- Frieling, J., Jones, M.T., Fendley, I.M., Mather, T.A., Xu, W., Alvarez Zarikian, C.A. and Expedition 396 scientists including Ferré, E.C. Constraints on volcanic and thermogenic carbon emissions during the Paleocene-Eocene Thermal Maximum. *Proceedings of the National Academy of Science*.

Manuscripts in Review

- Longman, J., Clementi, V.J., Frieling, J., Jones, M.T., Chatterjee, S., Planke, S., Berndt, C., Alvarez Zarikian, C., Betlem, P., Brinkhuis, H., Christopoulou, M.E., Ferré, E.C., Filina, I., Harper, D., Lambart, S., Millett, J.M., Mohn, G.T.F., Scherer, R.P., Varela, N., Xu, W., Yager, S.L. and the IODP Expedition 396 Party (in review). The impact of silicate diagenesis on Early Eocene climate. *Earth and Planetary Science Letters*.
- Cunningham, E.H., Lambart, S., Guo, P., Chatterjee, S., Tegner, C., Hartley, A., Morris, A.M., Planke, S., Berndt, C., Alvarez Zarikian, C.A., Betlem, P., Brinkhuis, H., Christopoulos, M., Ferré, E.C., Filina, I., Frieling, J., Harper, D.T., Jones, M.T., Longman, J., Millett, J.M., Mohn, G.T.F., Scherer, R.P., Varela, N., Xu, W., Yager, S.L. (in review). Rethinking The Plume Influence on Northeast Atlantic Magmatism. *Science Advances*.
- Caby, R., Ferré, E.C., Weidenbeck, M., and Ganade, C. (in review). New U-Pb zircon constrains from Nigeria on the Proterozoic evolution of the West Gondwana Orogen. *Precambrian Research*.
- Morris, A., Lambart, S., Alvarez Zarikian, C., Millett, J., Jones, M., Planke, S., Betlem, P., Chatterjee, S., Christopoulou, M., Ferré, E.C., Filina, I., Frieling, J., Scherer, R., Varela, N., Xu, W., & Yager, S. (in review). Recommendations for using core XRF data on basaltic cores as a tool to assess compositional variability. *Scientific Drilling*.

Refereed Articles in Journals

111. Honarbakhsh, L., Ferré, E.C. and Geissman, J.W. (2025). Preseismic ambient temperature and inferred formation depth of earthquake pseudotachylytes. *Earth and Planetary Science Letters*, 669, p.119564.
110. Ferré, E.C., Li, H., Zamani, N., Milesi, G. and Li, J. (2025). Thermochronological and Magnetic Advances on Faulting Processes: An Introduction. *Journal of Structural Geology*, doi.org/10.1016/j.jsg.2025.105421.
109. Zamani, N., Satolli, S., Murphy, M., Demory, F., Pace, B., Gattacceca, J., Kaňuk, J., Nováková, M., Gottardi, R. and Ferré, E.C. (2025). Record of seismic slip in carbonates: Insights from the Venere Fault during the 1915 Avezzano earthquake (Mw 7.0), Central Italy. *Journal of Structural Geology*, 197, p.105421.

108. Zamani, N., Murphy, M.A., Ferré, E.C., and Barou, F. (2025). Unraveling carbonate fault dynamics, from friction to decarbonation, through the 1959 Mw 7.2 earthquake in Montana. *Scientific Reports*, 10.1038/s41598-025-89071-4.
107. Asti, R., Saspiturry, N., de Saint-Blanquat, M., Sorriaux, P., and Ferré, E.C. (2025). Detachment faulting and mantle exhumation beneath an allochthonous carbonate cover: insights from the Gouffre Georges (Lherz Massif, Pyrenees, France). *Tectonics*, 10.1029/2024TC008757.
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