Sarah Lambart

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Academic appointments

Assistant Professor in Igneous Processes — Since March 2018
University of Utah - Department of Geology and Geophysics

MSCA-COFUND Fellow — Jan. 2017 - Jan. 2018
Cardiff University - School of Earth and Ocean Sciences

Visiting Assistant Professor — Jul. 2015 - Dec. 2016
University of California Davis - Department of Earth and Planetary Sciences

Lamont Postdoctoral Fellow — Sep. 2013 - Jun. 2015
Columbia University - Lamont-Doherty Earth Observatory

Postdoctoral Scholar — Sep. 2010 - Aug. 2013
Caltech - Division of Geological and Planetary Sciences

Education

2006-2010: Ph.D. in Earth Sciences, Blaise Pascal University, France
2004-2006: MS Earth Sciences, Blaise Pascal University, France
2001-2004: BS Earth Sciences, Blaise Pascal University and Rennes I University, France

Research interests

- Mantle melting and magma transport
- Magma/Fluid - Rock interactions
- Mantle heterogeneities
- Magma chamber processes
- Mineral carbon sequestration

Key skills:

- experimental: Piston-cylinder, 1 atm. gas-mixing furnaces, triaxial deformation apparatus
- analytical: Electron microprobe (JEOL JXA-8200 and CAMECA SX100), Scanning Electron Microscopy (Zeiss Sigma Analytical SEM and Jeol 5910-SV), TIMS (TRITON-Plus), LA-ICP-MS, Optical Microscopy; occasional user: FTIR spectroscopy, X-ray microtomography, MC-ICP-MS (Nu Plasma2)
- modeling: alphaMELTS; occasional user: MATLAB

Grants and fellowships

At the University of Utah:

As PI:

- Participation in IODP exp 396: "Mid-Norwegian Continental Margin Magmatism" (**Sole PI**, IODP/JRSO, 08/01/21-30/09/2022, $51k) – **2021**
- New digital resources for Mineralogy and Petrology. (**Sole PI**, University of Utah – Teaching grant, 11/01/20-06/30/2021, $3,461) – **2021**
- "High Temperature Experiments for Pore-Scale Investigation of a Two Fluid Phase Migration in Porous Media" (**Sole PI**, ASC-DNI, 09/01/20-08/31/2022, $110k) – **2020**
- "Development of an experimental technique for characterizing the effects of magma flow in porous media" (**Sole PI**, NSF-EAR, 04/01/20-03/31/2022, $200k) – **2020**
- "Development of an experimental technique to study magma migration" (**Sole PI,** CMES Seed grant, 06/01/19-05/31/2020, $22k) – **2019**

As co-I:

- "IsomIce (Isotopic analysis of melt inclusions from Reunion and Iceland to disclose Earth's mantle composition)." (**co-I** (PI: J. Koornneef), NWO, 2022-2025, 500k €) – **pending**
- "M**o**delling ar**c** r**e**cycling in the oce**a**nic ma**n**tle using radiogenic isotope systems (OCEANS)" (**co-I** (PI: R. Tilhac), European Union, 2022-2023, 400k €) – **pending**
- "CAREER: Modeling two-phase flow, multi-lithologic melting, and chemical disequilibrium with uranium-series isotopes". (**co-I** (PI: L. Elkins), NSF-EAR, 06/2021-05/2026, $700k) – **2021**

Before joining the U:

- "Investigation of the melt-rock reaction in the lower oceanic crust." (**Lead PI,** CUROP project: 06/17-08/17, £1600) – **2017**
- *"*MORB2Mantle: tracking mid-ocean ridge basalt from source to seafloor'' (**MSCA-COFUND fellowship**: 01/17-12/19; ~£255k) – **2016**
- ''Near-fractional melting of pyroxenite: Experimental investigations and applications to basalt petrogenesis'' (**Lead PI**, NSF-EAR: 06/16-05/19; $154k) – **2016**
- ''A combined experimental and theoretical investigation to reactive flow in brittle media with applications to solid Earth geodynamics'' (**Postdoc co-author**, NSF-EAR: 06/15-05/17; $409k) – **2015**
- ''Collaborative Research: Alteration of mantle peridotite: Geochemical fluxes and dynamics of far from equilibrium transport (**Postdoc co-author**, NSF-EAR: 09/15-08/18; $2,972k, LDEO part: $1,968k) – **2015**
- *"*Experimental & Theoretical Studies of Reaction-Driven Cracking in Natural &Engineered Geological Systems'' (**co-PI,** RISE award: 06/14-05/16; $160k) – **2014**
- **Postdoctoral fellowship** (one year of full-time funding at LDEO) – **2012**
- University **travel grant** for the Melt-glass-magmas short course, München, Germany – **2008**
- **PhD Scholarship** ''MESR'' (three years of full-time funding) – **2006**
- **National scholarship** for highly ranked students – **2005**

Invited talks and seminars:

2022: Seismo Lab seminar at UC Berkeley, CA-USA, Mar 2022
Departmental seminar at University of Arizona, AZ-USA, Feb 2022

2021: Invited talk for AGU 2021, session V024 "The Magmatic Plumbing Systems of Oceanic Islands" (declined)
Invited lecturer for the 2nd International Mantle School MEREMA, Sestri Levante, IT, Oct. 2021
Invited talk for Goldschmidt 2021, session 5a: Session 5a "Magmatic systems beneath ultraslow- to fast-spreading ridges" (declined)
School seminar series - Research School of Earth Sciences - ANU, virtual, Jun 2021
Petrology seminar - Research School of Earth Sciences - ANU, virtual, Jun 2021
Departmental seminar at SUNY-Geneseo, virtual, Mar. 2021

2020: Stout Lecture at University of Nebraska, Lincoln, virtual, Sept. 2020
Keynote speaker at the Goldschmidt 2020 for the session 03a, HW-USA, June 2020
Departmental seminar at Utah State University, UT-USA, Mar. 2020 (cancelled due to COVID-19)
Departmental seminar at Laboratoire Magmas et Volcans, Clermont-Ferrand, FR, Jan. 2020

2019: Invited talk at the AGU Fall meeting, San Francisco, CA, Dec. 2019
Departmental seminar at University of Iowa, IA-USA, Nov. 2019

2018: Departmental seminar at Brigham Young University, UT-USA, Oct. 2018
Departmental seminar at Utah Valley University, UT-USA, Oct. 2018

2017: Invited talk at the Goldschmidt conference, Paris-FR, Aug. 2017
Departmental seminar at the University of Utah, UT-USA, Feb. 2017
Seminar at CRPG, Nancy, FR, Feb. 2017

2016: Seminar at the University of Nevada, Reno, NV-USA, Sep. 2016

2015: Invited talk at the Geological Society of America Annual Meeting, Nov. 2015
Geoscience seminar & Journal club seminar at Aarhus University, DK, Mar. 2015
Geochemistry seminar at Lamont-Doherty Earth Observatory, NY-USA, Mar. 2015
DTM weekly seminar at the Carnegie Institution, DC-USA, Mar. 2015
2014: Earth and Planetary Sciences Seminar at AMNH, NY-USA, Oct. 2014
2013: Geodynamics seminar at Lamont-Doherty Earth Observatory, NY-USA, Oct. 2013
Departmental seminar at Rice University, TX-USA, Jan. 2013
2012: Brown bag seminar at University of California Davis, CA-USA, Apr. 2015
Division seminar at Geosciences Montpellier, FR, Apr. 2015
2011: Magmas seminar at ISTO, Orléans, FR, Dec. 2011
General seminar at CRPG, Nancy, FR, Dec. 2011
General seminar at Laboratoire Magmas et Volcans, Clermont-Ferrand, FR, Dec. 2011
2010: Invited talk at the AGU Fall Meeting, Dec. 2010
2009: Special seminar at California Institute of Technology, Dec. 2009

Teaching:

University of Utah:

GEO 5920/6920/7920 – Advanced Petrology	Graduate (2021-)	*n* = 12
GEO 3050 – Igneous and metamorphic Petrology	Undergrad. (2019-20, 2022)	*n* = 12-15
GEO 3020 – Mineralogy	Undergrad. (2018-)	*n* = 10-20

University of California Davis:

GEL 62 – Optical mineralogy	Undergrad. (2015)	*n* = 20-25
GEL 60 – Mineralogy	Undergrad (2015-2016)	*n* = 25-30
GEL 105 – Igneous Petrology	Undergrad (2016)	*n* = 25-30
GEL 1 – The Earth	Undergrad (2016)	*n* = 25-30

Lamont Doherty Earth Observatory:

Upper mantle seminar	Graduate (2013)	*n* = 10-15

Université Blaise Pascal:

Mathematics applied to Earth Sciences	Undergrad. (2006-2009)	*n* = 30-35
Volcanic Cartography	Graduate (2006-2009)	*n* = 30-35
Cartography 101	Undergrad. (2009)	*n* = 15-20

Mentored Students at University of Utah:

Current

- Emily Cunningham (PhD student [other committee members: L. Birgenheier, L. Elkins, P. Lippert , A. Mallik]; University of Utah; since spring 2021)
- Ashley Morris (MSc student [other committee members: TBD]; University of Utah; since fall 2021)
- Karrah Spendlove (Lab assistant; University of Utah; since spring 2021)

Past:

- Otto Lang (MSc student [other committee members: J. Bartley, L. Miyagi] - G&G Outstanding MSc student 2021; University of Utah; 2019-2021)
- Helen Lindsey (ACCESS student; University of Utah; spring 2021)
- Sarah Hamilton (UROP Scholar; Senior thesis; University of Utah; 2019-2020)

- Elliott Gray (UROP Scholar; University of Utah; spring 2020)
- William Haddick (UROP Scholar; Senior thesis; University of Utah; 2018-2019)

Graduate Students – Advisory Committee Member

Current

- Kevin Mendoza, current PhD candidate, University of Utah (role: committee member; advisors: John Bartley & Phil Wannamaker)
- Chantelle Kiessner, current PhD candidate, University of Utah (role: committee member; advisor: Lowell Miyagi)

Past:

- Delphine Klaessens, PhD candidate, Université de Lorraine, France (role: committee Chair; advisors: David Jousselin & Laurie Reisberg) – Feb 2021
- Samantha Couper, PhD candidate, University of Utah (role: committee member; advisors: Lowell Miyagi & Marie Jackson) – Feb 2021
- Joshua Marquardt, MSc student, University of Utah (role: committee member; advisors: Pete Lippert & Marie Jackson) – May 2020

Professional development

- URGE (Unlearning Racism in Geoscience) – Spring 2021
- Geochemical Society alphaMELTS2.0 *virtual* workshop – Nov. 2020
- Goldschmidt diffusion modeling *virtual* workshop – Jun. 2020
- CPR-First-aid Class, University of Utah, Salt Lake City – Dec. 2019
- "Nature Masterclasses" workshop, University of Utah, Salt Lake City – May 2019
- alphaMELTS workshop, University of Maryland, College Park MD – Dec. 2018
- Workshop for Early Career Geoscience Faculty, University of Maryland, College Park MD – July 2018
- Visiting Scientist at V.U. Amsterdam, Netherland – Summer and fall 2017
- Geochemistry Group Research in progress, Bristol, UK – summer & fall 2017
- GeoPRISMS mini-workshop: "From rifting to drifting: evidence from rifts and margins worldwide", San Francisco (CA), USA – Dec. 2015
- DCO thematic institute: ''Carbon from the Mantle to the Surface", Berkeley (CA), USA – Jul. 2015
- CIDER Summer Program: ''Mantle Interactions with the Hydrosphere & Carbosphere", Berkeley (CA), USA – Jul. 2015
- RCN-CCUS annual meeting and workshop, New-York (NY), USA – Apr. 2014
- EarthCube DEFORM/COMPRES workshop, Alexandria (VA), USA – Nov. 2013
- Short course «MELTS Camp», Pasadena (CA), USA – Sep. 2011
- Short course «Melts, Glasses, Magmas», München, Germany – Jun. 2007
- Short course «Gros Volumes», Clermont-Ferrand, France – Apr. 2007

Field experience

- *2021*: IODP expedition 396 "Mid-Norwegian Continental Margin Magmatism" – Petrologist (2 months)
- *2019*: Big Island, Hawaii – graduate & undergraduate field trip supervision (1 week); Lunar Crater fieldwork – sample collection (2 days); Arizona fieldwork – sample collection (3 days)
- *2018:* Bonneville Salt Flats, UT, fieldwork - Seismometer deployment (1 day); Markagunk landslide, UT, fieldtrip led by Bob Biek, UGS (2 days)
- *2016:* Smartville complex, CA, fieldtrip supervision (1 day)
- *2014*: Oman ophiolite, Oman, fieldwork (two weeks); Beni Bousera, Morocco, Orogenic Lherzolite Conf., Field Forum (3 days)

- *2006-09*: Clermont-Ferrand area, France, field camp supervision (3 days every year); Massif Central, France, field camp supervision (1 week every year)
- *2004-06:* Aeolian Islands, Italy, field seminar (1 week); Alps, France and Italy, field course (1week); Cap Creus, Spain, field course (1 week); Chaîne des Puys, France, reflection seismology short course (3 days); Ardèche, France, field course (1 week); Corbière, France, field course (1 week); Pic Saint Loup, France, field course (1 week)

Service & Outreach

Current/Ongoing

- Member of the search committee for new faculty positions (2022)
- Invited chair and coordinator for Theme 2 "Deep Earth", Goldschmidt, Hawaii, 2022.
- Q&A leader for the Rift2Ridge NSF workshop, virtual, Jun. 2021
- Member of the Faculty Reviews Committee – Geology and Geophysics/University of Utah
- Lead in the development of the new G&G 3D rock collection
- Member of the Graduate Affair Committee – Geology and Geophysics/University of Utah
- Panelist and reviewer for several NSF EAR funding programs
- Reviewer for the Natural Environment Research Council, UK (NERC)
- Reviewer for the UROP proposals.
- Reviewer for the Energy and Environment Program at the Alfred P. Sloan Foundation
- Reviewer for several international journals: https://publons.com/researcher/1226056/sarah-lambart/

Past

- Guest speaker for the Geologists of Jackson Hole (https://geologistsofjacksonhole.org/), WY-USA, May 2021
- Convener and chair of the session 2e: "Mantle heterogeneity: origins and contribution to magmatism", Goldschmidt, virtual, 2021.
- Judge at the Undergraduate Research Symposium at University of Utah
- Inventory and update of the thin section teaching collection at University of Utah
- Volunteer for the department Open House: supervise the "petrology" table.
- Convener and chair of the session 03g: "Probing Mantle Processes Using Mantle Massifs, Xenoliths and Xenocrysts to Understand Formation and Evolution of Continental and Oceanic Lithosphere", Goldschmidt, 2020 (fully virtual edition).
- Commencement speaker for the celebration of the new 2019 PhD from the "Ecole Doctorale des Sciences Fondamentales" of Université Clermont Auvergne, Clermont-Ferrand, FR (Jan. 2020)
- Member of the organization committee of @MineralCup
- Convener and chair of the session 06a «Mantle2Crust: Basalt genesis, transport and differentiation», Goldschmidt, Barcelona, SP (2019)
- Member of the search committee for a new faculty position in Geodesy (2018-2019)
- In charge of the organization of the Distinguished Lecture Series at University of Utah (Fall 2018)
- Seminar organization Solid Earth brownbag seminars at Cardiff University (2017)
- In charge of the experimental lab at UC Davis (2015-16)
- Member of the Volcanology-Geochemistry-Petrology (VGP) student awards committee (2014-16)
- Primary advisor of a geoscience education project: "Building" 3D visualization skills in mineralogy (2016)
- Co-Convener of the session 04f «Mantle Melting in Earth and Planetary Interiors», Goldschmidt, Yokohama, JP. (2016)
- Primary Convener and chair of session #7653 "The origin of basalt magmatism", AGU Fall Meeting, San Francisco, CA, Dec. (2015)
- Postdoc representative for the Campus Life Committee at LDEO (2014-15)

- OSPA Judge (Outstanding Student Paper Awards) at the AGU Fall Meetings (2011-12)
- PhD student delegate at the OPGC (Observatoire de Physique du Globe de Clermont-Ferrand) scientific council (2007-09)
- Seminar organization: In charge of internal seminars of the experimental petrology division (X-pots) of the Laboratoire Magmas and Volcans (2007-09)

International publications:

Summary: 15 papers published, 2 papers under review, total citations 735, h = 11, *students, [+]media coverage

[17] **Lambart S**., *Hamilton S., *Lang O. (submitted) Chemical variability of San Carlos Olivine. *Under reviews in Chemical Geology.*

[16] Xu R., Liu Y., **Lambart S.,** Hoernle K., Wang Z., Zou Z., Zhang J., Zhu Y., Li M., Moynier F., Chen H., Hu Z. (submitted) Decoupled Zn-Sr-Nd isotopes of continental intraplate basalts caused by two-stage melting process. *Under reviews in Geochimica et Cosmochimica Acta.*

[15] Planke S., Berndt C., Alvarez Zarikian C.A. and the Expedition 396 Scientists (2022) Expedition 396 Preliminary Report: Mid-Norwegian Continental Margin Magmatism. International Ocean Discovery Program. https://doi.org/10.14379/iodp.pr.396.2022

[14] Mallik[‡] A., **Lambart[‡] S.,** Chin[‡] E. (2021) Tracking the evolution of magmas from heterogeneous mantle sources to eruption. In: Konter J., Ballmer M, Cottaar S, & Marquardt H. (Eds.), Mantle Convection and Surface Expressions. *Geophysical Monograph* 263, pp. 153-176, doi:10.1002/9781119528609.ch6. **invited contribution.** ([‡]equally contributing authors)

[13] Xu R., Liu Y., **Lambart S.,** (2020) Melting of a hydrous peridotite mantle source under the Emeishan large igneous province. *Earth Science Reviews,* 207, 103253. doi: 10.1016/j.earscirev.2020.103253

[12[+]] **Lambart S.,** Koornneef J.M., Millet M.-A., Davies G., Cook* M., Lissenberg C.J. (2019) A Highly Heterogeneous Depleted Mantle Recorded in the Lower Oceanic Crust. *Nature Geoscience*, 12: 482-486. doi: 10.1038/s41561-019-0368-9

[11] Elkins L.J., Bourdon B., **Lambart S**. (2019) Testing pyroxenite vs. peridotite sources for marine basalts using U-series isotopes. *Lithos*, **invited review**, 332-333: 226-244, doi: 10.1016/j.lithos.2019.02.011

[10] **Lambart S.,** Savage H.M., Robinson* B., Kelemen P.B. (2018) Experimental investigation of the pressure of crystallization of $Ca(OH)_2$: implications for the reactive-cracking process. *Geochemistry, Geophysics, Geosystems*. doi: 10.1029/2018GC007609.

[9] Kelemen et al. (2018) In situ carbon mineralization in ultramafic rocks: Natural processes and possible engineered methods. *Energy Procedia – Special issue: International Carbon Conference*, 146: 92-102. doi: 10.1016/j.egypro.2018.07.013.

[8] **Lambart S.** (2017) No direct contribution of recycled crust in Icelandic basalts. *Geochemical Perspectives Letters*, 4: 7-12. doi: 10.7185/geochemlet.1728

[7[+]] **Lambart S.**, Baker M.B., Stolper E.M (2016) Role of pyroxenite in basalt genesis: Melt-PX, a melting parameterization for mantle pyroxenites at 0.9-5 GPa. *Journal of Geophysical Research – Solid Earth,* 121. doi: 10.1002/2015JB012762.

[6] Laporte D., **Lambart S.**, Schiano P., Ottolini L. (2014) Experimental derivation of nepheline syenite and phonolite liquids by partial melting of upper mantle peridotites. *Earth and Planetary Science Letters*, 404:319-331. doi: 10.1016/j.epsl.2014.08.002.

[5] Shortlle O., Maclennan J., **Lambart S.** (2014), Quantifying lithological variability in the mantle. *Earth and Planetary Sciences Letter,* 395(1):24-40. doi: 10.1016/j.epsl.2014.03.040.

[4] **Lambart S.**, Laporte D., Schiano P. (2013), Markers of the pyroxenite contribution on the major-element compositions of oceanic basalts: review of the experimental constraints. *Lithos*, **Invited Review**, 160: 14-36, doi:10.1016/j.lithos.2012.11.018.

[3] **Lambart S.**, Laporte, D., Provost A., Schiano, P. (2012), Fate of pyroxenite-derived melts in the peridotitic mantle: Thermodynamic and experimental constraints. *Journal of Petrology,* 53(3): 451-476. doi: 10.1093/petrology/egr068.

[2] **Lambart S.**, Laporte, D., Schiano, P. (2009), An experimental study of pyroxenite partial melts at 1 and 1.5 GPa: Implications for the major-element composition of Mid-Ocean Ridge Basalts. *Earth and Planetary Science Letters*, 288: 335-347. doi: 10.1016/j.epsl.2009.09.038.

[1] **Lambart S.**, Laporte, D., Schiano, P. (2009), An experimental study of focused magma transport and basalt-peridotite interactions beneath mid-ocean ridges: implications for the generation of primitive MORB compositions. *Contributions to Mineralogy and Petrology*, 157: 429-451. doi 10.1007/s00410-008-0344-7.

Other publications

[3] **Lambart S.** (2010) "Role of mantle heterogeneities in MORB genesis: Experimental study of the partial melting of pyroxenites and of the magma/rock interaction at high pressure", Ph.D thesis, Département des Sciences de la Terre, Université Blaise Pascal, Clermont-Ferrand, France, January 8th 2010, pp. 286.

[2] **Lambart S.** (2006) "Experimental approach on the role of focused magma transport beneath mid-ocean ridge: implications for MORB genesis", Master thesis, Département des Sciences de la Terre, Université Blaise Pascal, Clermont-Ferrand, France, pp. 51.

[1] **Lambart S.** (2005) "Kinetics of growth and dissolution of diopside in silicate bath", Master thesis, Département des Sciences de la Terre, Université Blaise Pascal, Clermont-Ferrand, France, pp. 21.

Selection of published abstracts (* denote the speaker, ⁺student)

- *Mourey A., Shea T., Lynn K., Lerner A., Wallace P., **Lambart S.**, Costa F., Oalmann J., Lee L., Gansecki C., Fertilization of the crust related to the explosive-effusive transition during the last eruptive cycle at Kīlauea (Hawai'i). AGU 2021, New Orleans, LA, Dec. **2021.**
- ⁺Lang O., ***Lambart S.,** Partitioning of first row transition elements in mantle lithologies. Goldschmidt 2021, virtual, July. **2021. Talk,** https://doi.org/10.7185/gold2021.7709
- *Pin J., France L., Reisberg L., **Lambart S.** Thermodynamic model for the refertilization of the non-cratonic continental mantle lithosphere. Goldschmidt 2021, virtual, July. **2021. Virtual presentation**
- *⁺Lang O., **Lambart S.** Identifying lithological tracers with first row transition element partitioning of natural pyroxenites. AGU 2020, *virtual*, Dec. **2020. Poster**
- ***Lambart S.,** ⁺Lang O. Lithological heterogeneities in the mantle: origins and contributions to magma genesis. Goldschmidt 2020, virtual, Jun. **2020,** doi: 10.46427/gold2020.1405. **Keynote talk**
- ⁺Hamilton S., ***Lambart S.** Compositional variability of San Carlos olivine. Goldschmidt 2020, virtual, Jun. **2020. Talk**
- ***Lambart S.,** Koornneef J.M., Millet M.-A., Davies G., ⁺Cook M., Lissenberg C.J. Centimeter-scale isotopic heterogeneity preserved in the lower oceanic crust. AGU FM, San Francisco, Calif., Dec. **2019**. **Invited talk**
- ***Lambart S.,** Koornneef J.M., Millet M.-A., Davies G., ⁺Cook M., Lissenberg C.J. Mantle heterogeneity preserved in the lower oceanic crust. Goldschmidt 2019, Barcelona, Spain, Aug. **2019. Talk**
- *Haddick W., **Lambart S.** Investigating Melt-Rock Interactions in Gabbroic Rocks from the Atlantis Massif: Implications for Oceanic Crustal Accretion. NCUR 2019, Kennesaw, GA, Apr. **2019. Poster**

- *__Lambart S.,__ Batch vs Continuous Melting: Importance of the Melting Regime in Quantifying the Mantle Heterogeneity. Goldschmidt, Paris, France, August **2017. Invited talk**
- Gaudio S. J., [+]*Ajoku C., [+]Mccarty B., **Lambart S.** "Building" 3D visualization skills in mineralogy. AGU FM, San Francisco, Calif., Dec. **2016. Poster**
- ***Lambart S.**, Melt-rock interactions: infinite source of new mantle lithologies. GSA meeting, Baltimore, Maryland, Nov. **2015**. **Invited talk**
- ***Lambart S.**, Baker M.B., Stolper E.M. PX-MELT: a predictive model for the melting of pyroxenites in the mantle, 6th International Orogenic Lherzolite Conference, Marrakech, Morocco, May **2014. Talk**
- ***Lambart S.**, Baker M.B., Stolper E.M. Parameterizing near-solidus temperatures of mantle pyroxenites and eclogites, Fall Meeting, AGU, San Francisco, Calif., #V32B-04, Dec. **2011**. **Talk**
- ***Lambart S.**, Laporte D., Schiano P., Provost A. Mantle pyroxenites as source of the compositional variability in alkali basalts?, AGU, San Franciso, Calif., #V13F-01, Dec. **2010**. **Invited talk**

Media coverage and highlights:

IODP cruise:
UNews (post-expedition): https://attheu.utah.edu/facultystaff/u-geoscientist-sails-on-arctic-research-cruise/
UNews (pre-expedition): https://attheu.utah.edu/announcements/u-professor-to-sail-on-expedition-sampling-the-rocks-of-the-seafloor/

New teaching resources:
UNews: How 3-D modeling helped U geologists teach during COVID-19: https://attheu.utah.edu/facultystaff/3-d-modeling-and-printing-helped/

MinCupU:
Geobites: Got an apatite for minerals? Of quartz you do!
https://geobites.org/got-an-apatite-for-minerals-of-quartz-you-do/?fbclid=IwAR2m4OGC9hCErfPDeC9KFlILYWvHl6pyPZgIlPxppmestVY5ZFDMChMRA58

Nat.Geo2019:
UNews: How Earth's mantle is like a Jackson Pollock: https://unews.utah.edu/mantle/
EGU Blog: Are mantle melts heterogeneous on a centimeter scale?
https://blogs.egu.eu/divisions/gmpv/2019/07/18/heterogeneity/
NSF news: Earth's mantle looks like a painting: https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=298587
NPR: http://www.tinyurl.com/y4bf9xv3

JGR2016
Editor's highlights:
https://agupubs.onlinelibrary.wiley.com/article/10.1002/2015JB012762/editor-highlight/10.5555/MIG-HO.6f59621a-59e1-40bb-b79a-3b2aa2981905
Eos Research Spotlights: A Better Model for How the Mantle Melts
https://eos.org/research-spotlights/a-better-model-for-how-the-mantle-melts

Collaborators – Present and past (alphabetical order):
Mike Baker (Caltech), Eric Brown (Aahrus University), Emily Chin (SCRIPPS), IODP Expedition 396 Science Party, Lynne Elkins (University of Nebraska-Lincoln), Lyderic France (CRPG), Sarah Gaudio (SUNY Geneseo), Peter Kelemen (Columbia University), Janne Koornneef (V.U. Amsterdam), Didier Laporte (UCA), Chip Lesher (UC Davis),

Johan Lissenberg (Cardiff University), John Maclennan (Cambridge U.), Ananya Mallik (Brown University), Marc-Alban Millet (Cardiff University), Adrien Mourey (University of Hawaii), Juliette Pin (Univ. Brest), Ariel Provost (UCA), Heather Savage (LDEO), Pierre Schiano (UCA), Thomas Shea (University of Hawaii), Oliver Shorttle (Cambridge U.), Ed Stolper (Caltech), Rong Xu (China University of Geosciences, Wuhan), IODP Expedition396 Science party (https://iodp.tamu.edu/scienceops/precruise/midnorwegian/participants.html).

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