



SCHOOL OF EARTH AND ATMOSPHERIC SCIENCES  
GEORGIA INSTITUTE OF TECHNOLOGY  
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Curriculum Vitae

## Christian Huber

**Ph.D., Assistant Professor**

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### **I. Earned Degrees**

05/2009	Ph.D. in Earth and Planetary Sciences, University of California, Berkeley (2005-2009).
7/2004	B.Sc. in Physics, University of Geneva, Switzerland (2001-2004)
01/2001	M.Sc. in Earth Sciences, University of Geneva, Switzerland (1998-2001)
7/1998	B.Sc. In Earth Sciences, University of Geneva, Switzerland (1995-1998)

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### **II. Employment history**

since 08/2011	Assistant Professor (tenure-track), School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, USA
since 2013	Adjunct faculty in Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, USA
8/2009-07/2011	Post-doctoral fellow, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, USA
9/2005-7/2009	Graduate research assistant, Department of Earth and Planetary Sciences, University of California, Berkeley, USA (advisor: Michael Manga)

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### III. Honors and awards

2015	Hishashi Kuno Award, American Geophysical Union.
2015	Class of 1940, Teaching Effectiveness Award, Georgia Institute of Technology
2015	NSF CAREER Award.
2012	PRF ACS Young Investigator Award.
2010	Paul Niggli Medal (Swiss Young Scientist Award), Swiss Society of Mineralogy and Petrology.
2009-2011	Postdoctoral Fellowship, Swiss National Fund for Science.
2009	Louderback award for outstanding scholarship, University of California, Berkeley.

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### IV. Research, Scholarship and Creative Activities

#### Published Books, Book Chapters and Edited Volumes

2. Dufek, J., **Huber, C.**, and Karlstrom, L., Melt Generation and Magma Chamber Processes, in Modeling volcanic processes: The physics and mathematics of volcanism, edited by S.A. Fagents, T.K.P. Gregg, and R.C. Lopez, Cambridge Univ Press, 2013.
1. **Huber, C.**, and Su, Y.(\*), A pore-scale investigation of the dynamic response of saturated porous media to transient stresses, *Wiley, Special Volume*, in press.

#### Published and Accepted Journal Articles

(\*) indicates graduate students advised by C. Huber

(\*\*) indicates postdoc advised by C. Huber

41. Parmigiani, A.(\*\*), Faroughi, S.(\*), **Huber, C.**, Bachmann, O., and Su, Y.(\*), Bubble accumulation and its role on the evolution of upper crustal magma reservoirs, *Nature*, in press.
40. Degruyter, W.(\*\*), **Huber, C.**, Bachmann, O., Cooper, K., and Kent A., On the evolution of large silicic magma reservoirs in the crust, *Geology*, 2016.
39. Faroughi, S.(\*), and **Huber, C.**, A theoretical hydrodynamic modification on the soil texture analyses obtained from the hydrometer test, *Geotechnical Journal*, 2016.

38. Druhan, J., Brown, S., and **Huber, C.**, Pore scale isotope effects: Observations and models of isotope distributions across fluid-solid boundaries, *Reviews in Mineralogy and Geochemistry*, Volume 80, 2015.
37. Faroughi, S. (\*), and **Huber, C.**, Effective thermal conductivity of metal and non-metal particulate composites with interfacial thermal resistance at high volume fraction of nano to macro-sized spheres, *Journal of Applied Physics*, vol. 117, 055104, 2015.
36. Di Palma, P.R.(\*), **Huber, C.**, and Viotti, P., A new lattice Boltzmann model for interface reactions between immiscible fluids, *Advances in Water Resources*, vol. 80, 139–149, 2015.
35. Bouvet de la Maisonneuve, C(\*\*), Costa, F., Patia, H., and **Huber, C.**, Mafic magma replenishment during unrest at silicic calderas: Insights from the 2006 eruption of Rabaul (Papua New Guinea), *Physical and Temporal Evolution of Magmatic Systems*, vol. 422, 2015.
34. Karani, H. (\*), and **Huber, C.**, New lattice Boltzmann formulation for conjugate heat transfer, *Physical Review E*, vol. 91, 023304, 2015.
33. Cooper, L.B., Bachmann, O., and **Huber, C.**, Volatile budgets of volcanoes inferred from textural zonation of S-rich hauyne, *Geology*, vol. 43, 2015.
32. Faroughi, S.(\*), and **Huber, C.**, Unifying the settling velocity in suspensions and emulsions of non-deformable particles, *Geophysical Research Letters*, vol. 42, 53–59, 2015.
31. Faroughi, S.(\*), and **Huber, C.**, 2015, A generalized equation for rheology of emulsions and suspensions of deformable particles subjected to simple shear at low Reynolds number, *Rheologica Acta*, vol. 54, 85–108, 2015.
30. Faroughi, S.(\*), and **Huber, C.**, A crowding based rheological model for suspensions of rigid bimodal sized particles with interfering size ratios, *Physical Review E*, vol. 90, 052303, 2014.
29. Gelman, S., Deering, C., Bachmann, O., **Huber, C.**, and Gutierrez, F., Trace element predictions for ?missing? silicic cumulates, *Earth and Planetary Science Letters*, vol. 403, 307–316, 2014.
28. Degruyter W.(\*\*), **Huber C.**, A model for eruption frequency of upper crustal silicic magma chambers, *Earth and Planetary Science Letters*, vol. 403, 117–130, 2014.
27. **Huber, C.**, and Su, Y.(\*), A pore-scale investigation of the dynamic response of saturated porous media to transient stresses, *GeoFluids*, vol. 119, 216–239, 2014.
26. Parmigiani, A(\*\*), Huber, C., and Bachmann, O., Mush microphysics and the reactivation of crystal-rich magma reservoirs, *Journal of Geophysical Research: Solid Earth*, vol. 119 (8), 6308–6322, 2014.
25. **Huber, C.**, Su, Y.(\*), Nguyen, C., Parmigiani, A(\*\*), Gonnermann, H., and Dufek, J., A new bubble dynamics model to study bubble growth, deformation and coalescence, *Journal of Geophysical Research*, Volume 119, Issue 1, 216?-239, 2014.

24. **Huber, C.**, Shafei, B.(\*\*), and Parmigiani, A.(\*\*), A new pore-scale model for linear and non-linear heterogeneous dissolution and precipitation, *Geochimica et Cosmochimica Acta*, Volume 124, 109–130, 2014.
23. Nguyen, C., Gonnermann, H., Chen, Y., **Huber, C.**, Dufek, J., Maiorano, A., and Gouldstone, A., Film drainage and the lifetime of bubbles, *Gcubed*, Vol. 14, 3616–3631, 2013.
22. **Huber, C.**, Parmigiani, A.(\*\*), Latt, J., Dufek, J., Channelization of buoyant nonwetting fluids in saturated porous media, *Water Resources Research*, Vol. 49, 6371–6380, 2013.
21. **Huber, C.**, Bachmann O., Vigneresse, J.-L., Dufek J., Parmigiani A.(\*\*), A physical model for metal extraction and transport in shallow magmatic systems, *Geochemistry, Geophysics and Geosystems*, vol. 13, p.18, 2012.
20. Matthews, N., **Huber, C.**, Smith, V. and Pyle ,D., Timescales of silicic magma recharge and reactivation from Ti diffusion in quartz, *Journal of Petrology*, vol. 53, 1385–1416, 2012.
19. **Huber, C.**, Bachmann, O., and Dufek, J., Crystal-rich vs. crystal-poor ignimbrites: a competition between stirring time and reactivation, *Geology*, vol. 40, p115-118, 2012.
18. Bachmann, O., Deering, C., Ruprecht, J., **Huber,C.**, Skopelittis, A., and Schnyder, C., Evolution of silicic magmas in the Kos-Nisyros volcanic center: cycles associated with caldera collapse, *Contributions to mineralogy and petrology*, vol. 163, 151–166, 2012.
17. N. E. Matthews, D. M. Pyle, V. C. Smith, C. J. N. Wilson, **C. Huber**, V. van Hinsberg, Quartz zoning and the pre-eruptive evolution of the 340-ka Whakamaru magma systems, New Zealand, *Contributions to mineralogy and petrology*, vol. 163, 87–107, 2012.
16. Parmigiani, A.(\*\*), **Huber, C.**, Bachmann, O. and Chopard, B., Pore-scale mass and reactant transport in multiphase porous media flows, *Journal of Fluid Mechanics*, vol. 686, 40–76, 2011 (Made the cover of this issue of JFM).
15. **Huber, C.**, Bachmann, O., Dufek, J., Thermo-mechanical reactivation of locked crystal mushes: melting-induced internal fracturation and assimilation processes in magmas, to *Earth and Planetary Science Letters*, vol. 304, 443–454, 2011.
14. **Huber, C.**, Cassata, W., Renne, P., Huber, C., Cassata, W.S., Renne, P.R., A lattice Boltzmann model for noble gas diffusion in solids: The importance of domain shape and diffusive anisotropy and implications for thermochronometry, *Geochimica et Cosmochimica Acta*, vol. 75, 2170–2186, 2011.
13. **Huber, C.**, Dufek, J., Chopard, B., An enthalpy-based method to implement Dirichlet boundary conditions in complex geometry, 2011, *International Journal of Modern Physics C*, vol. 22., 1093–1105, 2011.
12. **Huber, C.**, Bachmann, O., Dufek, J., The limitations of melting in the rejuvenation of silicic crystal mushes, *Journal of Volcanology and Geothermal Research*, vol. 195, 97–105, 2010.

11. **Huber, C.**, Bachmann, O., and Manga, M., Two competing effects of volatiles on heat transfer in crystal-rich magmas: thermal insulation versus reactivation, *Journal of Petrology*, vol. 51, 847–867, 2010.
10. **Huber, C.**, B. Chopard and M. Manga, A lattice Boltzmann model for coupled diffusion, *Journal of Computational Physics*, vol. 229, 7956–7976, 2010.
9. **Huber, C.**, O. Bachmann and M. Manga, Homogenization processes in silicic magma chambers by stirring and latent heat buffering, *Earth and Planetary Science Letters*, vol. 283, 38–47, 2009.
8. Watkins, J., DePaolo, D, **Huber, C.**, and Ryerson, F., Liquid composition-dependence of isotope fractionation during diffusion in molten silicates, *Geochemica et Cosmochimica Acta*, vol. 73, 7341–7359, 2009.
7. Parmigiani, A., **Huber, C.**, Chopard, B., Latt, J., and Bachmann, O., Application of the Multi Distribution Function Lattice Boltzmann approach to thermal flows, *Eur. Phys. J. Special Topics*, vol. 171, 37–43, 2009.
6. Watkins, J., Manga, M., **Huber, C.**, and Martin, M., Diffusion-controlled spherulite growth in obsidian inferred from H<sub>2</sub>O concentration profiles, *Contributions in Mineralogy and Petrology*, vol. 157, 163–172, 2009.
5. **Huber, C.**, J. Watkins, and M. Manga, Steady shape for a bubble rising below an inclined wall at low Reynolds numbers, *European Journal of Fluid Mechanics*, vol. 28, 405–410, 2009.
4. **Huber, C.**, A. Parmigiani, B. Chopard, M. Manga and O. Bachmann, Lattice Boltzmann model for melting with natural convection, *International Journal of Heat and Fluid Flow*, vol. 29, 1469–1480, 2008.
3. Almendros, J., Chouet, B., Dawson, P. and **Huber, C.**, Mapping the Sources of the Seismic Wave Field at Kilauea Volcano, Hawaii, Using Data Recorded on Multiple Seismic Antennas, *Bulletin of the Seismological Society of America*; vol. 92; no. 6; 2333–2351, 2002.

#### Submitted Journal Articles

48. Bouvet de Maisonneuve, C., Costa, F., **Huber, C.**, Vonlanthen, P., Dungan, M., Do olivines faithfully record magmatic events? submitted to *Contributions to mineralogy and petrology*.
47. Faroughi, S.(\*), Degruyter, W.(\*\*), and **Huber, C.**, Underlying physics that controls the non-Newtonian rheology of solid suspensions: application to crystal-bearing magmas, invited submission to *Reviews of Geophysics*.
46. Su, Y.(\*), **Huber, C.**, Bachmann, O., and Zajacz, Z., Magma boiling underneath volcanoes: a key to massive S release during eruptions, submitted to *Nature Geosciences*.
45. Shafei, B.(\*\*), **Huber, C.**, and Parmigiani, A.(\*\*), Effects of pore-scale heterogeneity on arsenic sorption on iron minerals, in reviews in *AWR special issue*.

44. **Huber, C.**, Ohja, L, and Wray, J., The shallow water cycle budget of Mars from Recurring Slope Lineae, submitted to *Nature*.
43. Bachmann, O., and **Huber, C.**, Silicic reservoirs in the Earth's crust, *invited submission to centennial issue of American Mineralogist*.
42. Karani, H., and **Huber, C.**, On the limitations of thermal non-equilibrium models for natural convection in porous media, submitted to *Physics of Fluids*.

Invited presentations (first author only)

30. C. Huber, Kuno Award Lecture, EGU, April 2016.
29. C. Huber, Invited lecture at the Isaac Newton Mathematical Institute "Melts in the Mantle" workshop, Cambridge, February 2016.
28. C. Huber. AGU Fall Meeting 2015, Invited speaker in session "Multiphase flow and transport processes in Earth Sciences".
27. C. Huber. Energy Sciences Institute, Yale, Symposium on Carbon Management, May 2015.
26. C. Huber. Department seminar, Harvard University, March 2015.
25. C. Huber. Geophysics department Seminar, Stanford University, November 2014.
24. C. Huber. Geology department Seminar, Stanford University, November 2014.
23. C. Huber. Goldschmidt 2014 (invited talk, declined).
22. C. Huber. EGU Vienna 2014, **two** keynote talks.
21. C. Huber. Department Seminar, March 2014, U. British Columbia, Vancouver, CA.
20. C. Huber. Department Seminar, February 2014, DTM, Carnegie Institute for Science
19. C. Huber. AGU Fall 2013 (San Francisco, USA).
18. C. Huber. Goldschmidt 2013 (August, Florence, Italy), declined.
17. C. Huber. AGU Fall 2012 (December San Francisco), 3 invited talks on magmatic process, maximum allowed invited talks being 2, declined one.
16. C. Huber. Department Seminar, University of Georgia, Geology Department, October 2012.
15. C. Huber. Goldschmidt, Montreal, CA, June 2012.
14. C. Huber. Gordon Conference, New Hampshire, July 2012 keynote, declined (conflicting schedule).
13. C. Huber. Department Seminar, Earth Institute Singapore, May 2012.
12. C. Huber. Geo-seminar, CE, Georgia Tech, February 2012.
11. C. Huber. Lamont-Doherty, two talks: Volcanology seminar and Geodynamics seminar, November 2011.
10. C. Huber. Rice University, department seminar, February 2011.
9. C. Huber. AGU Fall 2010, ?Homogeneous crystal-rich vs zoned crystal-poor ignimbrites: how much strain accumulates in large magma reservoirs between a new magma recharge and eruption??.

8. C. Huber. Swiss Geoscience Meeting, Fribourg, November 2010.
7. C. Huber. Discrete Simulation of Fluid Dynamics, Rome 2010, Keynote "Lattice Boltzmann, a tailored modeling tool for Geosciences?".
6. C. Huber. Vanderbilt University, department seminar, May 2010.
5. C. Huber. SCRIPPS, University of California San Diego, department seminar, April 2010.
4. C. Huber. Georgia Tech, department seminar, April 2010.
3. C. Huber. Oxford University, two talks, department seminar and geological fluid dynamics, February 2010.
2. C. Huber. Stanford University, two talks, two department seminars, March 2009.
1. C. Huber. U.C. Berkeley, department seminar, Spring 2009.

#### Grants and Contracts as Principal Investigator

4. **Title of Project:** The Effect of Bubbles on Magma Dynamics  
**Agency:** NSF CAREER  
**Total Dollar Amount:** 519,000 Dollars  
**Role:** Principal Investigator  
**Collaborators:** funding for postdoc and 2 graduate students  
**Period of Contract:** 2015–2019  
**Candidate's Share:** 100%
3. **Title of Project:** The provenance of the excess sulfur released in arc volcanoes during plinian eruptions  
**Agency:** NSF EAR - Geochemistry and Petrology  
**Total Dollar Amount:** 168,247 Dollars  
**Role:** Principal Investigator  
**Collaborators:** funding for PhD student  
**Period of Contract:** 2012–2015  
**Candidate's Share:** 100%
2. **Title of Project:** Heterogeneous bubble dynamics in volcanic conduits  
**Agency:** NSF EAR - Geochemistry and Petrology  
**Total Dollar Amount:** 162,288 Dollars  
**Role:** Principal Investigator  
**Collaborators:** funding for one PhD student  
**Period of Contract:** 2012–2015  
**Candidate's Share:** 50%
1. **Title of Project:** Transients in porous media  
**Agency:** ACS PRF  
**Total Dollar Amount:** 100,000 Dollars



**Role:** Principal Investigator  
**Collaborators:** funding for postdoc and one PhD student  
**Period of Contract:** 2013–2015  
**Candidate's Share:** 100%

#### Grants and Contracts as Co-Principal Investigator

3. **Title of Project:** Dynamics of caldera-scale rhyolitic magma systems  
**Agency:** NSF Integrated Earth Systems  
**Total Dollar Amount:** 354,607 Dollars  
**Role:** Co-Investigator (lead institution UW Madison)  
**Collaborators:** funding for one PhD student  
**Period of Contract:** 2014–2019  
**Candidate's Share:** 50%
  
2. **Title of Project:** Quantifying the thermal history of crustal magma storage through crystal records and numerical modeling  
**Agency:** NSF EAR - Geochemistry and Petrology  
**Total Dollar Amount:** 166,352 Dollars  
**Role:** Co-Investigator (lead institution UC Davis)  
**Collaborators:** funding for one PhD student and a postdoc  
**Period of Contract:** 2014–2017  
**Candidate's Share:** 100%
  
1. **Swiss Postdoctoral fellowships to postdocs:**  
**Recipients** A. Parmigiani (2012-2014), C. Bouvet de Maisonneuve (2012-2014) and W. Degruyter (2012-2014).

#### Pending Proposals

2. **Title of Project:** The Role of Crustal Differentiation in Controlling the Bioavailability of Phosphorus on Silicate Planets  
**Agency:** NASA Habitability  
**Total Dollar Amount:** 402,915 Dollars  
**Role:** co-Investigator (lead C. Reinhard, Georgia Tech)  
**Collaborators:** shared PhD student  
**Candidate's Share:** 25%
  
1. **Title of Project:** Distinguishing the size and age of subsurface carbon pools from pore scale processes to continuum scale observations with isotope-enabled reactive transport modeling  
**Agency:** DOE

**Total Dollar Amount:** 67,456 Dollars  
**Role:** co-Investigator (lead J. Druhan, Urbana-Champaign)  
**Collaborators:** none  
**Candidate's Share:** 100%

### Field Experience

- Santorini, Kos and Nisyros, Aeolian Island, March 2014.
- Rabaul Volcanic Field, Papua New Guinea, May 2013.
- Taupo, New Zealand, March 2013.
- Mt St Helens and the Cascades, October 2012 (Physical volcanology class).
- Arenal, Costa Rica. March 2011.
- Mt St Helens and the Cascades, October 2010 (Physical volcanology class).
- San Juan Volcanic Field, Colorado, 2008 (mapping and sampling).
- Field mapping Franciscan assemblage (TA for undergraduate excursion), 2008.
- Field excursion, Iceland, 2008.
- 3 weeks ore deposits excursion and visits of mine in Canada, 1999.
- Mapping sedimentary fields and ore deposits, Northern Spain (sediments) and Southern Spain (epithermal deposits) + Almaden (Hg mine), 1998.
- Mapping Holocene volcanoes in Massif Central, France, Spring 1998.
- San Juan volcanic field, mapping and sampling, 3 months, summer 1997.
- Mapping in the Alps, several weeks over summer 1995 to 1998.

## H. Other Professional Activities

1. Invited to teach week-long workshop on lattice Boltzmann for Earth Sciences (8h/day). U.C. Berkeley (summer 2009, 20 attendees), University of Geneva (November 2010, 10 attendees) and Rice University (summer 2011, 18 attendees), at UBC (Vancouver, March 2014, 20 attendees).

## **V. Teaching (in chronological order)**

### Courses Taught at the Georgia Institute of Technology

1. Fall 2011:  
Earth System Modeling, EAS 4610/6130, 8 Undergraduate students, 14 Graduate students.
2. Fall 2012:  
Earth System Modeling, EAS 4610/6130, 5 Undergraduate students, 18 Graduate students.
3. Fall 2012:  
Lattice Boltzmann Methods in Geosciences, EAS 8012CH, 4 Graduate students.
4. Spring 2013:  
Transport in Porous Media, EAS 4803/8803, 10 Graduate students.
5. Spring 2014:  
Earth System Modeling, EAS 4610/6130, 5 Undergraduate students, 22 Graduate students.
6. Spring 2014:  
Lattice Boltzmann Methods in Geosciences, 2 hours/week workshop all semester, 10 Graduate students.
7. Fall 2014:  
Earth System Modeling, EAS 4610/6130, 7 Undergraduate students, 15 Graduate students.
8. Fall 2014:  
Transport in Porous Media, EAS 4803/8803, 7 Graduate students.
9. Fall 2015:  
Earth System Modeling, EAS 4610/6130, 6 Undergraduates students, 8 Graduate students
10. Spring 2016:  
Geodynamics, EAS 4312/6312, 2 Undergraduate student, 2 Graduate students

### Individual Student Guidance: PhD Students Advised at Georgia Tech

1. since 08/2012: The rheology of granular media (Salah A. Faroughi), expected completion date Spring 2016.
2. since 08/2012: The fate of volatiles in magmas (Yanqing Su), expected completion date Spring 2017.
3. since 08/2013: Multiscale heat and mass transport in porous media (Hamid G. Karani), expected completion date Spring 2017.

### Service on Thesis or Dissertation Committees at Georgia Tech

1. Nicolas Espinoza (Civil Engineering, GTech) Summer 2011,
2. Fengshou Zhang (Civil Engineering, GTech) March 2012, Kevin Chao (EAS, GTech) May 2012,
3. Seunghee Kim (Civil Engineering, GTech) June 2012,
4. Babak Shafei (EAS, GTech) summer 2012,
5. Qian Zhao (Civil Engineering, GTech) 2013,
6. Cesar Pasten (Civil Engineering, GTech) 2013,
7. Jennifer Telling (EAS, GTech) 2013,
8. Hao Xu (Civil Engineering, GTech) 2013,
9. Dai Sheng (Civil Engineering, GTech) 2013,
10. Nortey Yeboah (Civil Engineering, GTech) 2013,
11. Hyunwook Choo (Civil Engineering, GTech) 2013,
12. Cindy Young (EAS, 2014),
13. Joe Estep (EAS, 2014),
14. Efthymios Papadopoulos (Civil Engineering, 2014),
15. Hao Xu (Civil Engineering, 2014),
16. Junboong Jang (Civil Engineering, 2014),
17. Song Chong (Civil Engineering, 2014),
18. Song Hun (CE, 2015),
19. Chastity Aiken (EAS, 2015),
20. Shahrzad Roshankhah (CE, 2015),
21. Mary Benage (EAS, 2015),

22. Ozge Karakas (EAS, 2015),
23. Xiaofeng Meng (EAS, 2015).
24. Kip Gray (CE, 2016)

Service on Comprehensive Examination Committees at Georgia Tech

1. Xu Hao (CE, 2013), thesis proposal defense
2. Junbong Jang (CE, 2013), thesis proposal defense
3. Shahrzad Roshankhah (CE, 2014), thesis proposal defense
4. Song Chong (CE, 2014), thesis proposal defense
5. Lei Liang (CE, 2015), thesis proposal defense
6. Junghee Park (CE, 2015), thesis proposal defense
7. Kip Gray (CE, 2015)., thesis proposal defense
8. Brad Hegyi (EAS 2012), Comprehensive examination
9. Babak Shafei (EAS 2012), Comprehensive examination
10. Joseph Estep (EAS 2013), Comprehensive examination
11. Chastity Aiken (EAS 2013), Comprehensive examination - chair
12. Ozge Karakas (EAS 2013), Comprehensive examination
13. Joshua Mendez (EAS 2013), Comprehensive examination
14. Yanqing Su (EAS 2014), Comprehensive examination
15. Zefeng Li (EAS 2014), Comprehensive examination
16. Dongdong Yao (EAS 2014), Comprehensive examination - chair
17. Ryan Calahan (EAS 2014), Comprehensive examination
18. Taryn Black (EAS 2014), Comprehensive examination
19. Hamid Karani (EAS 2014), Comprehensive examination
20. Amy Williamson (EAS 2014), Comprehensive examination - chair

## Mentoring of Postdoctoral Fellows or Visiting Scholars

1. Andrea Parmigiani, postdoc 2012-2014.
2. Caroline Bouvet de Maisonneuve, postdoc 2012-2014 (Shared with EOS Singapore).
3. Babak Shafei, postdoc 2012-2013.
4. Wim Degruyter, postdoc 2012-2015
5. Tarsilo Girona, visiting scholar (Fall 2012).
6. Tarsilo Girona, postdoc starting July 1<sup>st</sup> 2015.
7. Victor Guitierrez, M.Sc. visiting scholar (Universidad Nacional de Medellin, Colombia), Spring 2015.
8. Mingjie Li, Ph.D. visiting scholar (China), Fall 2015.

## **IV. Service**

### Public and Community Service

- since 2013, partnership with CEISMC on GIFT and PT-SURE programs. Brings high school students (+ teacher) for 7 weeks to conduct paid research internship in my lab.
- Session convener, AGU 2010, Goldschmidt 2011, IAVCEI 2013, AGU 2014.
- Reviewer, JGR, GRL, EPSL, Physica A, Geology, PLoS ONE, Journal of Geosciences. Vadose Zone, Water Resources Research, Advances in Water Research, Journal of Computational Sciences, Nature, International Journal of Heat and Mass Transfer, Transport in Porous Media, Environmental Science and Technology.
- Reviewer NSF CAREER proposals, Geophysics, Hydrology, Petrology and Geochemistry.
- Invited to NSF petrology and geochemistry panel, April 2016.

### C. Institute Contributions

- since 2011: Undergraduate studies committee, School of Earth and Atmospheric Sciences
- since 2013: Chair of Undergraduate studies committee, School of Earth and Atmospheric Sciences
- since 2014: Chair of Scientific computing committee, School of Earth and Atmospheric Sciences
- Spring 2013: Faculty Search committee member for 2 searches, School of Earth and Atmospheric Sciences