

Robert Clyde Mahon

Curriculum Vitae

Assistant Professor
University of New Orleans
Departments of Earth and Environmental Sciences & Civil and Environmental Engineering
1062 Geology & Psychology Building
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EDUCATION

2012-2017 *Ph.D., Geology*, University of Wyoming
2010-2012 *M.S., Geology*, Idaho State University
2005-2009 *B.S., Geology*, University of Montana

POSITIONS HELD

2018-present Assistant Professor, University of New Orleans, Departments of Earth and Environmental Sciences & Civil and Environmental Engineering, Pontchartrain Institute for Environmental Science
2017-2018 *NCED2 Postdoctoral Researcher*, University of Arkansas, Department of Geosciences
2016 *Lab Coordinator*, Physical Geology, University of Wyoming Department of Geology and Geophysics.
2014-2015 *Intern*, ConocoPhillips Geoscience and Reservoir Engineering Technology, Stratigraphy and Sedimentology group
2008-2010 *Well-site Geologic Consultant*, Sunburst Consulting Inc., Billings, MT
2008 *Intern*, Idaho National Laboratory Analytical Chemistry Lab

PUBLICATIONS

Peer reviewed:

- Ke, W.-T., Shaw, J.B., **Mahon, R.C.**, Cathcart, C.A. [2019], Distributary channel networks as moving boundaries: Causes and morphokinematic effects: *Journal of Geophysical Research: Earth Surface*, 124(7), 1878-1898, doi: 10.1029/2019JF005084.
- Mahon, R.C.** and McElroy, B. [2018], Indirect estimation of bedload flux from modern sand-bed rivers and ancient fluvial strata: *Geology*, 46, 579-582, doi:10.1130/G40161.1.
- Naqshband, S., McElroy, B., **Mahon, R.C.** [2017], Validating a universal model of particle transport lengths with laboratory measurements of suspended grain motions: *Water Resources Research*, v. 53, no. 5, p. 4106-4123, doi:10.1002/2016WR020024.
- Mahon, R.C.**, Shaw, J.B., Barnhart, K.R., Hogley, D.E.J., McElroy, B. [2015], Quantifying the stratigraphic completeness of delta shoreline trajectories: *Journal of Geophysical Research: Earth Surface*, v. 120, doi:10.1002/2014JF003298.
- Link, P.K., **Mahon, R.C.**, Beranek, L.P., Campbell-Stone, E.A., Lynds, R.S. [2014], Detrital zircon provenance of Pennsylvanian and Permian sandstones: Wyoming Craton, Uinta Mountains and Wood River Basin: *Rocky Mountain Geology*, v. 49, no. 2, p. 115-136, doi:10.2113/gsrocky.49.2.137.
- Mahon, R.C.**, Dehler, C.M., Link, P.K., Karlstrom, K.E., Gehrels, G.E. [2014], Geochronologic and stratigraphic constraints on the Mesoproterozoic and Neoproterozoic Pahrump Group, Death Valley,

California: A record of the assembly, stability and breakup of Rodinia: *Geological Society of America Bulletin*, v. 126, no. 5-6, p. 652-664, doi:10.1130/B30956.1.

Mahon, R.C., Dehler, C.M., Karlstrom, K.E., Link, P.K., Gehrels, G.E. [2014], Detrital zircon provenance and paleogeography of the Pahrump Group and overlying strata, Death Valley, California: *Precambrian Research*, v. 251, p. 102-117, doi: 10.1016/j.precamres.2014.06.005.

In review or revision:

Draft manuscripts available upon request

Mahon, R.C., Ganti, V., Ashley, T.C., McElroy, B. [*in preparation*], Stochastic model for the development of fluvial bedform cross set bounding surfaces: *In preparation for submission to Sedimentology*.

Ashley, T.C., **Mahon, R.C.**, Naqshband, S., McElroy, B. [*in revision*], Changes in particle behavior associated with development of equilibrium bedforms: *In revision for resubmission to the Journal of Geophysical Research: Earth Surface*.

Mahon, R.C. and Shaw, J.B. [*in revision*], A faithful record of channel mouth bifurcation angles in river delta stratigraphy on Earth and Mars: *In revision for resubmission to Geology*. EarthArXiv Preprint doi: 10.17605/OSF.IO/9R64A

Mahon, R.C., Ganti, V., Naqshband, S., Ashley, T.C., Shaw, J.B., McElroy, B. [*in revision*], Semi-empirical model for curvature of fluvial bed form cross set bounding surfaces: *in revision for resubmission to the Journal of Geophysical Research: Earth Surface*.

Refereed theses:

Mahon, R.C. [2017], Quantitative controls on stratal geometries in clastic sedimentary systems: University of Wyoming Dissertation, 148 p.

Mahon, R.C. [2012], Detrital zircon provenance, age constraints and revised stratigraphy of the Mesoproterozoic and Neoproterozoic Pahrump Group, Death Valley region, California and Geology of the Saddle Peak Hills 7.5' quadrangle, San Bernardino County, California: Idaho State University Thesis, 194 p., 1 color plate.

INVITED LECTURES

“3D bedform dynamics: from grain motions to stratigraphic architectures.” University of New Orleans, Department of Computer Sciences, October 25, 2019.

“3D bedform dynamics: from grain motions to stratigraphic architectures.” Tulane University, Department of Earth and Environmental Sciences Seminar Series, April 28, 2018.

“3D bedform dynamics: from grain motions to stratigraphic architectures.” U.S. Naval Research Laboratory, Sediment Transport Group, Stennis Space Center, MS, October 31, 2018.

“Quantitative controls on stratal geometries in clastic sedimentary systems.” University of New Orleans, Department of Earth and Environmental Science Colloquium, New Orleans, LA, May 15, 2018.

“Quantitative controls on stratal geometries in clastic sedimentary systems.” California State University, Bakersfield, Department of Geological Science Colloquium, Bakersfield, CA, February 23, 2018.

“Quantitative controls on stratal geometries in clastic sedimentary systems.” University of Arkansas, Department of Geoscience Colloquium, Fayetteville, AR, October 20, 2017.

“The stratigraphic record of surface processes from grain to basin scale.” Utah State University, Department of Geology Distinguished Lecture Series, Logan, UT, October 7, 2016.

“The stratigraphic record of surface processes from grain to basin scale.” Idaho State University, Department of Geosciences Colloquium, Pocatello, ID, October 19, 2016.

HONORS and AWARDS

2014 *SEPM Student Poster Award*, GSA Annual Meeting, Vancouver, BC, Canada

2013 *First Place Inaugural USGS/GSA Annual Best Student Geologic Map Competition*, 125th Anniversary GSA Annual Meeting, Denver, CO

2007 *Second Place Poster Presentation*, Rocky Mountain Geodays Conference, Missoula, MT

GRANTS and CONTRACTS

Funded (\$406k total, \$179k to UNO):

- 2019-2021: *Controls on grain-size fining and sediment deposition across delta fronts*, American Chemical Society Petroleum Research Fund, Doctoral New Investigator program (\$110k). PI R. Mahon.
- 2019-2020: *RAPID: Characterizing the Sedimentary Archive of the Longest Mississippi River Flood on Record, while Implementing a New Model for Inclusive Undergraduate Geoscience Research*, PI A. Fernandes, co-PIs A. Abeyta, R. Mahon, T. Swanson (\$200k total, \$23k to UNO), NSF Award # 2005439.
- 2019-2020: *Bridging scales in sediment resuspension modeling*. US Naval Research Lab subcontract (\$46k).
- 2017-2018: *Geometry and dynamics of delta channel bifurcations and their stratigraphic records*, National Center for Earth Surface Dynamics NCED2 Synthesis post-doctoral research fellowship (\$50k). PI. R. Mahon.

Pending (\$605k):

- 2020-2023: *3-Dimensional sediment transport dynamics over river dunes*, Louisiana Board of Regents Support Fund Research Competitiveness Subprogram (\$179k). PI R. Mahon.
- 2020-2023: *Grain-size dependent sediment routing along prograding river delta fronts*, Louisiana Sea Grant Coastal Science Assistantship Program (\$75k). PI R. Mahon.
- 2020-2021: MRI: Acquisition of an inductively coupled plasma triple quadrupole mass spectrometer instrument for southeast Louisiana (\$351k). PI P. Zito, Co-PIs R. Mahon, V. Poltavets, D. Podgorski, M. Tarr.

SCHOLARSHIPS and STUDENT GRANTS

2017 (\$2,723):

- BP Exploration British Petroleum America Scholarship (\$1,300)
Albert E Bradbury Family Graduate Fellowship in Geology and Geophysics (\$1,423)

2016 (\$8,490):

- Chevron Conference Travel Scholarship (\$1,800) – *To attend AGU Fall Meeting, San Francisco*
John M Hummel Memorial Scholarship (\$2,000) – *bedform dynamics flume experiments*
Albert E Bradbury Family Graduate Fellowship in Geology and Geophysics (\$800)
University of Wyoming Summer Augmentation Award (\$2,200)
GSA Student Travel Grant (\$390) – *To attend the GSA Rocky Mountain Section Meeting, Moscom, ID*

2015 (\$26,980):

- Chevron Conference Travel Scholarship (\$2,000) – *To attend AGU Fall Meeting, San Francisco*
Chevron University of Wyoming Graduate Student Scholarship (\$20,000)
CUAHSI (Consortium of Universities for the Advancement of Hydrological Sciences, Inc.) Pathfinder Fellowship (\$4,980) – *3-D bedform dynamics at Imperial College London, UK*

2014 (\$9,470):

- Dick and Lynne Cheney Fellowship for Excellence in Study Abroad (\$3,130) – *To attend the Sedimentary Experimentalists Network workshop, Utrecht, Netherlands*
Society of Independent Professional Earth Scientists Scholarship (\$2,000)
Inaugural Wyoming Geological Association Gene George Petroleum Geology Scholarship, (\$1,000)
Geological Society of America Research Grant (\$2,500) – *Kayenta Formation paleohydraulics*
SEPM-Autogenic Dynamics of Sedimentary Systems Conference Travel Grant (\$190)
GSA Student Travel Grant (\$150) – *To attend the GSA Annual Meeting, Vancouver, BC*
UW Geology Geophysics Travel Grant (\$500) – *To attend the GSA Annual Meeting, Vancouver, BC*

2013 (\$28,075):

ConocoPhillips Rocky Mountain Basin Graduate Study Scholarship (\$25,000)
Rocky Mountain Section SEPM Donald H. Smith Research Grant for Ph.D. Student (\$2,000) – *Bedform deformation flume experiments and Kayenta Formation paleohydraulics*
Tobacco Root Geological Society Field Scholarship (\$1,000) – *Seminole Reservoir sedimentation*
GSA Student Travel Grant (\$75) – *Travel to GSA Annual Meeting, Denver, CO*

2012 (\$4,250):

ISU University Research Committee Grant (\$2,000) – *Death Valley detrital zircon analyses*
AAPG L. Austin Weeks Grant (\$1,000) – *for ISU-AAPG Student Chapter*
AAPG Book Gift (\$250) – *for ISU-AAPG Student Chapter*
AAPG Rocky Mountain Section Student Chapter Grant (\$1,000) – *for ISU-AAPG Student Chapter*

2011 (\$7,118):

Colorado Scientific Society Grant in Memory of George L. Snyder (\$1,000) – *Death Valley Proterozoic stratigraphy, mapping, geochronology*
USGS EdMap - P.I. Paul K. Link (\$5,668) – *Saddle Peak Hills 7.5' quadrangle, Death Valley*
ISU Student Travel Grant (\$200) – *travel to GSA Annual Meeting, Minneapolis, MN*
GSA Student Travel Grant (\$250) – *travel to GSA Annual Meeting, Minneapolis, MN*

2010 (\$5,818):

Rocky Mountain Association of Geologists Babcock Scholarship (\$2,500) – *Death Valley Proterozoic stratigraphy/mapping*
Precambrian Research Center Field Research Grant (\$1,000) – *Death Valley Proterozoic thin sections*
Geological Society of America Research Grant (\$1,968) – *Death Valley Proterozoic stratigraphy, mapping, geochronology*
Tobacco Root Geological Society Harrison Scholarship (\$350) – *Death Valley Proterozoic stratigraphy, mapping, geochronology*

2008 (\$500):

AAPG Foundation L. Austin Weeks Grant for Undergraduate Research (\$500)

STUDENTS ADVISED

Primary advisor

Micheal Amos, M.S., 2021 expected
Leah Tevis, B.S., COSURP/Tolmas scholar, 2021 expected
Malcolm Cross, M.S., 2021 expected
Sarah Noel, M.S., 2022 expected

Committee member

Riana Grout, M.S., 2021 expected
Jessica Villers, M.S., 2021 expected

OUTREACH and PRESS

Science... sort of podcast episode 302 (02/2019): AGU 2018 Part II, Dune or dune not, there is no dry (ice).
Planetary Geomorphology Image of the Month (10/2018): Universality of delta bifurcations.

SERVICE

External Service:

2020-current *Committee Member*, AGU EPSP Social Media Committee
2019-2022 *Committee Member*, SEPM Honorary Membership Committee

- 2019 *Program Reviewer*, International Sedimentary Geosciences Congress 2020, Flagstaff, AZ
2019 *Session Liaison*, AGU Outstanding Student Paper Award, San Francisco, CA
2018 *Judge*, AGU Outstanding Student Paper Award, Washington, DC
2018 *Invited Participant*, Coastlines and People NSF Scoping Session, Atlanta, GA
2015 *Member ad hoc*, Geological Society of America Diversity Task Force
2014-2015 *Ex-Officio Councilor*, Geological Society of America Council
2014-2017 *Inaugural Councilor*, Geological Society of America Student Advisory Council
-2015 *Inaugural Chairman*, Geological Society of America Student Advisory Council
2014 *Member at large*, Geological Society of America eGSA Committee
2013-2014 *Graduate Representative*, UW Geology & Geophysics Faculty Committee
2013-2014 *Organizer*, UW Geology & Geophysics weekly Brown Bag Seminar Series
2010-2012 *Founding President*, ISU Student Chapter of the AAPG
2011-2012 *Graduate Committee Member*, ISU Promotion and Tenure Committee
2008-2010 *Founding Board Member*, Rattlesnake Creek Watershed Group, 501(c)3
2007-2009 *President*, UM Geology Club
2008-2009 *Vice President*, UM Student Chapter of the AAPG
2008-2009 *Founding President*, UM Student Clay Society, Ceramics Department
2008 *Chairman*, Rocky Mountain Geodays Research Conference
2008 *Board Member*, UM Conference on Undergraduate Research
2007-2008 *Secretary*, UM chapter of the AAPG
2003-2004 *Junior Ambassador*, Shanghai and Nanjing National Museums, China

Reviewing Service:

Geology
GSA Bulletin
PLOS One
Earth Surface Dynamics
Journal of Sedimentary Research
Journal of the Geological Society
SEPM Special Publications
International Geology Review

Service to UNO:

- 2019-present *Committee Member*, UNO Data Management Committee
2019-present *Committee Member*, InnovateUNO Advisory Committee
2019 Organized two field trips for students to visit Tulane Delta Basin experiments in progress
2018 *Reviewer* for ORSP Stimulating Competitive Research proposals (3 proposals reviewed)
2018 *Mentor* CoSURP/Tolmas Undergraduate Research Scholar Leah Tevis

SESSIONS CONVENED

- 2020 Supercritical-flow processes and fluvial paleohydraulics: *Accepted session, International Sedimentary Geosciences Congress (ISCG2020)*, Flagstaff, AZ. Co-conveners: S. Trampush, B. McElroy.
2019 #FlumeFriday: Building a broad and diverse online community to share insights from physical modelling experiments: *AGU Fall Meeting*, San Francisco, CA. Co-conveners: H. Williams, R. Tinoco, S. McLelland.
2016 Modern and Ancient Sediment Transport on Earth and Planetary Surfaces: *GSA Annual Meeting*, Denver, CO, oral and poster. Co-conveners: T.C. Ashley, S.M. Trampush, A. Fernandes, M. Liang.
2016 Source to sink, Precambrian to modern: Erosion, sediment transport, and the stratigraphic record of surface processes: *GSA Rocky Mountain Section meeting*, Moscow, ID, oral and poster. Co-conveners: C.E. Lukens, P.K. Link.

TEACHING EXPERIENCE

UNO Courses Taught (as instructor of record):

2020 Spring	EES4750/5750 Principles of Stratigraphy
2020 Spring	ENCE 2350 Statics
2019 Fall	EES 6096 Special Topics: Writing Science
2019 Fall	EES 6096 Special Topics: Colloquium
2019 Fall	EES 4700/5700 Advanced Stratigraphy (replacing EES 6770)
2019 Spring	ENCE 6334 Sediment Transport and Dredging
2018 Fall	EES 6770 Basin Analysis

WORKSHOPS and SHORT COURSES

2020	Fluvial Paleohydraulics: International Sedimentary Geosciences Congress, Flagstaff, AZ (ISGC 2020)
2018	Fluvial Stratigraphic Inversion Workshop, U. Wyoming, <i>Co-organizer/instructor</i>
2018	NCED Summer Institute – “Earth Surface Math”, Minneapolis, MN, <i>Co-organizer/Presenter</i>
2018	CSDMS Annual Workshop, CU Boulder, <i>SEN Invited Participant</i>
2017	CSDMS Annual Workshop, CU Boulder; <i>SEN Invited Participant</i>
2016	Sediment Experimentalist Network Workshop, UC Berkeley, <i>Invited Participant</i>
2014	Sediment Experimentalist Network Workshop, Utrecht University, <i>Invited Participant</i>
2013	NCED Summer Institute – “Subsurface to Surface: recovering surface dynamics from stratigraphic records,” University of Minnesota, <i>Participant</i>

SKILLS and METHODS

Experimental sedimentology facility design/construction – fluvial/delta flumes for research and teaching
Matlab, ArcGIS/QGIS, Adobe Product Suite, Microsoft Office Suite, SolidWorks CAD, Petrel, WellCAD, Stereonet3D/Stereonet9, OSBackstrip, OpendTect
3D photogrammetry and structure-from-motion techniques (in Agisoft Photoscan Pro)
Nortek Vectrino II ADV, Aquadopp ADCP, Teledyne Riverpro ADCP profilers- both laboratory and field deployment
Ultrasonic depth profilers and processing/interpretation of ultrasonic data
3D Laser topographic measurement
Particle tracking and velocimetry
Knudsen Pinger sub-bottom profiler and processing/interpretation of Pinger seismic data
Geologic mapping, field stratigraphy, and surveying
Sediment sampling (bedload, suspended load, grab, core) in field settings and laboratory flumes
Optical, laser, and sieve grain size analysis, and heavy mineral separation

CONFERENCE PROCEEDINGS

- Mahon, R.C.**, Ganti, V., Ashley, T.C., McElroy, B., 2020, Stochastic model for the development of fluvial bedform cross set bounding surfaces: SEPM International Sedimentary Geosciences Congress, Flagstaff, Arizona.
- Swanson, T., Mohrig, D., **Mahon, R.C.**, 2020, Modeling sedimentary structures generated during terminal sand transport by turbidity currents: SEPM International Sedimentary Geosciences Congress, Flagstaff, Arizona.
- Shaw, J.B., **Mahon, R.C.**, Gilchrist, S., 2020, Sedimentology of a Prograding Distributary Channel Network: SEPM International Sedimentary Geosciences Congress, Flagstaff, Arizona.
- Tevis, L. **Mahon, R.C.**, Esposito, C.R., 2019, Flow and sediment dynamics through complex emergent vegetation: AGU Fall Meeting, San Francisco, CA, EP53F-2231.
- Amos, M., **Mahon, R.C.**, Shaw, J.B., Cathcart, C.A., 2019, Sediment transport dynamics and the evolution of subaqueous delta channel levees: AGU Fall Meeting, San Francisco, CA, EP23E-2254.

- Shaw, J.B., Ke, W.-T., **Mahon, R.C.**, 2018 (Invited), Comparing and contrasting tributary and distributary channel networks: GSA Abstracts with Programs, vol. 50, no. 6, doi: 10.1130/abs/2018AM-321310
- Mahon, R.C.** and Shaw, J.B., 2018, A faithful record of channel mouth bifurcation angles in river delta stratigraphy on Earth and Mars: AGU Fall Meeting, Washington, D.C., EP31D-2379
- Ashley, T.C., **Mahon, R.C.**, Naqshband, S., Leary, K., McElroy, B., 2018, Ensemble distributions of particle hop distance and travel time over equilibrium Dunes: AGU Fall Meeting, Washington, D.C., EP33A-10
- Cathcart, C., Shaw, J.B., **Mahon, R.C.**, Ke, W.-T., 2018, Nourishment area asymmetry relates a distributary channel network's structure and dynamics: AGU Fall Meeting, Washington, D.C., EP31D-2380
- Shaw, J.B., Ke, W.-T., **Mahon, R.C.**, 2018, Distributary Channel Networks modeled using Non-linear Viscous Fingering: AGU Fall Meeting, Washington, D.C., EP32A-06
- Mahon, R.C.** and McElroy, B., 2017, Indirect estimation of bedload flux from modern rivers and ancient fluvial strata: International Conference on Fluvial Sedimentology, Calgary, AB.
- Mahon, R.C.**, Ganti, V., Naqshband, S., Shaw, J.B., McElroy, B., 2017, Reconstructing paleo-shear velocity from the geometries of preserved bedform cross set bounding surfaces in the stratigraphic record: International Conference on Fluvial Sedimentology, Calgary, AB.
- Mahon, R.C.**, Naqshband, S., McElroy, B., 2016, 2D model for fluvial bedform morphodynamics: theory and empirical evaluation using profiling ADVs: AGU Fall Meeting, San Francisco, CA, EP53C-0989
- Mahon, R.C.**, Naqshband, S., McElroy, B., 2016, 2D model for fluvial bedform morphodynamics: theory and empirical evaluation using profiling ADVs: GSA Abstracts with Programs, Denver, CO, v. 48, no. 7, doi:10.1130/abs/2016AM-287218
- Naqshband, S., **Mahon, R.C.**, McElroy, B., 2016, Quantifying grain excursion lengths for a wide range of flow conditions: GSA Abstracts with Programs, Denver, CO, v. 48, no. 7, doi: 10.1130/abs/2016AM-281208
- Hobley, D.E.J., Tucker, G., **Mahon, R.C.**, Barnhart, K.R., Shaw, J.B., Voller, V., Paola, C., 2015, Surface process control on stratigraphic completeness in simple experimental deltas: AGU Fall Meeting, San Francisco, CA, EP32B-08
- Mahon, R.C.**, Ganti, V., McElroy, B., Shaw, J.B., 2015, Reconstructing past fluvial flow conditions from the geometry of bedform cross sets in the stratigraphic record: British Society for Geomorphology Annual Meeting, Southampton, UK.
- Mahon, R.C.**, Ganti, V., McElroy, B., Shaw, J.B., 2015, Reconstructing past fluvial flow conditions from the geometry of bedform cross sets in the stratigraphic record: AGU Fall Meeting EP33B-1067
- McElroy, B., **Mahon, R.C.**, Ashley, T.C., Alexander, J.S., 2015 (Invited), Scaling of sand flux over bedforms- experiments to field scale: AGU Fall Meeting EP13C-07
- Mahon, R.C.**, Shaw, J.B., Barnhart, K., Hobley, D.E.J., McElroy, B., 2014, Quantifying the completeness of shoreline trajectories in the stratigraphic record: GSA Abstracts with Programs, v. 46, no. 6, p. 352, Vancouver, BC, Canada. SEPM Student Poster Awardee.
- Mahon, R.C.**, Shaw, J.B., Barnhart, K., Hobley, D.E.J., McElroy, B., 2014, Quantifying the completeness of shoreline trajectories in the stratigraphic record: SEPM Research Conference: Autogenic Dynamics of Sedimentary Systems, Grand Junction, CO.
- Mahon, R.C.**, Ganti, V., McElroy, B., Shaw, J.B., 2014, Reconstructing fluvial flow and sediment transport conditions from cross-set geometries in the stratigraphic record: GSA Abstracts with Programs, v. 46, no. 6, p. 830, Vancouver, BC, Canada.
- Mahon, R.C.**, Campbell-Stone, E., Lynds, R., Spaeth, L.J., Rhodes, R., 2013, Detrital zircon provenance and paleogeographic trends for Pennsylvanian and Triassic sedimentary rocks in southwestern Wyoming and northern Utah-Colorado: GSA Abstracts with Programs, v. 45, no. 7, p. 604, Denver, CO.
- Mahon, R.C.** and Link, P.K., 2013, EdMap geologic map of the Saddle Peak Hills 7.5' quadrangle, Death Valley National Park, San Bernardino County, California: GSA Abstracts with Programs, v. 45, no. 7, p. 372, Denver, CO. First Place at USGS/GSA Best Student Geologic Map Competition.
- Mahon, R.C.** and McElroy, B., 2013, Linking bed deformation, sediment hydrodynamics and bed set geometry: Summer Institute for Earth Surface Dynamics, St. Anthony Falls Laboratory, University of Minnesota, Minneapolis, MN.
- Mahon, R.C.** and Link, P.K. (presenting), 2013, Geology of the Saddle Peak Hills 7.5' quadrangle, San Bernardino County, California: GSA Abstracts with Programs, v. 45, no. 5, p. 30

- Mahon, R.C.**, Dehler, C.M., Karlstrom, K.E., Link, P.K., 2012, Detrital zircon provenance, geochronology and revised stratigraphy of the Mesoproterozoic and Neoproterozoic Pahrump Group (Supergroup?), Death Valley region, California: 34th International Geological Congress, Brisbane, QLD, Australia.
- Mahon, R.C.**, Dehler, C.M., Karlstrom, K.E., Link, P.K., 2012, Detrital zircon provenance, geochronology and revised stratigraphy of the Mesoproterozoic and Neoproterozoic Pahrump Group (Supergroup?), Death Valley region, California: GSA Abstracts with Programs, v. 44, no. 6, p. 82, Albuquerque, NM.
- Link, P.K., Yonkee, W.A., Dehler, C.M., Mahoney, J.B., Balgord, E.A., Keeley, J.A., **Mahon, R.C.**, 2012, Cryogenian to Ordovician detrital-zircon provenance of the rifting cordilleran margin, Montana, Idaho and Utah: GSA Abstracts with Programs, v. 44, no. 7, p. 378, Charlotte, NC.
- Mahon, R.C.**, and Link, P.K., 2011, Seismites and evidence for syn-depositional extensional tectonism from the Neoproterozoic Beck Spring Dolomite (Pahrump Group), southeastern Death Valley, California: GSA Abstracts with Programs, v. 43, no. 5, p. 280, Minneapolis, MN.
- Scott, J.R., Hinman N.W., Richardson C.D., **Mahon R.C.**, McJunkin T.R., 2009, Detection of nonaromatic organic compounds in meteorites using imaging laser desorption/ionization Fourier transform ion cyclotron resonance mass spectrometry: AGU Fall Meeting, Abstract #P11A-1196, San Francisco, CA.
- Mahon, R.C.**, 2007, Oolite of the Late Proterozoic Beck Spring Dolomite of eastern California: Rocky Mountain Geodays Conference for Undergraduate Research, Missoula, MT.