

*Curriculum Vitae*  
**JAMES H. MACDONALD, Jr., Ph.D.**  
**Associate Professor of Geology**  
**jmacdona@fgcu.edu**  
**(239)-590-7429**  
**Dept. of Marine and Ecological Sciences**  
**Florida Gulf Coast University**  
**10501 FGCU Blvd South**  
**Fort Myers, FL 33965**

**EDUCATION**

**Ph.D. University at Albany, State University of New York**  
Petrology, Geochemistry, & Tectonics, 2006

**B.S. New Paltz, State University of New York**  
Environmental Geology, 1998

**EMPLOYMENT**

**Associate Professor of Geology**, Florida Gulf Coast University, Current

**Earth and Space Science Coordinator**, Florida Gulf Coast University, 2010 – 2012

**Assistant Professor of Geology**, Florida Gulf Coast University, 2007 – 2012

**Instructor of Earth and Environmental Sciences**, Wright State University, 2006-2007

**TEACHING EXPERIENCE AT FGCU**

GLY 1000C, Physical Geology, FGCU, Fall 2007 - 2017, Spring 2008 - 2016

Introductory combined lecture/lab geology course for science and engineering majors.

GLY 2030C, Environmental Geology, FGCU, Fall 2007 - 2011, Spring 2008, 2009, 2011

Introductory combined lecture/lab environmental geology course for science and Eng. majors.

GLY 3420C, Tectonics and Marine Geology, FGCU, Spring 2010, 2012, 2013, 2015, 2017

Advanced geology course used as Marine Science elective.

GLY 3202C, Mineralogy & Petrology, FGCU, Fall 2012, 2014 - 2016

Advanced geology elective.

GLY 4930, Hydrology, FGCU, Fall 2013, Spring 2016

Advanced geology course Environmental Studies majors.

ISC 4930, Geologic Carbon Dioxide Sequestration, FGCU, Fall 2010

Upper division current topics course for Environmental Studies and Marine Science majors

EVR 4905, Advanced Electron Microscopy, FGCU, Fall 2015

Upper division current topics course for Environmental Studies and Marine Science majors

EVR 4905, Epidote Geochemistry, FGCU, Spring 2016

Upper division current topics course for a Marine Science major

**Thesis committee member:** Brian Hoyer; Holocene History of the Coastal Geomorphology of Everglades National Park: The roles of reef development, tidal pond formation, and sea-level rise: M.S. in Environmental Science (2008)

**Thesis committee member:** Christian Ercolani; Reconstructing the prehistoric record of intense hurricane landfalls from Southwest Florida back-barrier sediments: M.S. in Environmental Science (2014)

**Faculty mentor:** Kevin Wise, Marine Science, mineral geochemistry research (current)

**Faculty mentor:** Bridgett Miller, Marine Science, wetland soil quality (current)

**Faculty mentor:** Madison Easterbrook, Marine Science, mineral geochemistry research (current)

**Faculty mentor:** Glenn Thompson, Marine Science, mineral geochemistry research (current)

**Faculty mentor:** Kristy Zalud, Marine Science, senior research experience (current)

**Co-Faculty mentor:** Stephen Ozzello, Environmental Studies, senior research experience (2016-2017)

**Co-Faculty mentor:** Deidra Goodwin, Environmental Studies, senior research experience (2015-2016)

**Faculty mentor:** Alex Maruszczak, Marine Science, mineral geochemistry research (2015-2016)

**Faculty mentor:** Shanna Stingu, Marine Science, senior research experience (2014-2015)

**Faculty mentor:** Scott Milliken, Marine Science, senior research experience (2013-2014)

**Faculty mentor:** Michael Saenz, Environmental Studies, senior research experience (2012-2013)

**Faculty mentor:** Bryn Foster, Environmental Studies, senior research experience (2011-2012)

**Faculty mentor:** Ashley Girt, Marine Science, USGS Fort Myers Florida Water Science Center (2011-2012)

#### **DEPARTMENT SERVICE**

Search committee member for Earth and Space Science Instructor I (Fall 08 -- Spring 09)

Search committee member for Assistant/Associate Professor of Physics (Fall 09 -- Spring 10)

College of Arts and Science Undergraduate Curriculum Committee, Marine and Ecological Sciences representative (Fall 09 – Spring 11)

Chair, search committee for Assistant Professor of Paleoclimatology (Fall 10 – Spring 11)

Earth and Space Science Program Coordinator (Fall 10 – Spring 11; Fall 12)

Marine and Ecological Sciences Department Leadership Team (Fall 10 – Fall 12)

Faculty mentor to an Environmental Science Instructor I (Past)

Faculty mentor to Assistant Professor of Geology/Paleoclimatology (Past)

Search committee member for Environmental Studies Instructor I (Fall 14 – Spring 15)

Faculty mentor to a Faculty member under a probationary period (2016-2017)

Faculty mentor to Instructor I of Geology (Current)

Faculty mentor to Instructor I of Environmental Studies (Current)

#### **COLLEGE SERVICE**

Chair of the College of Arts and Science Undergraduate Curriculum Committee (Fall 09 – Spring 11)

Search committee member for College of Arts and Sciences Academic Advisor I (Spring 09)

Search committee member for College of Arts and Sciences Academic Advisor I (Summer 10 – Fall 10)

Search committee member for College of Arts and Sciences Academic Advisor I (Summer 11)

Search committee member for Anthropology Instructor I (Fall 11 – Spring 12)

CAS reorganization group (Fall 12)

Earth and Space Science coordinator for the FGCU STEM competition (Spring 13 – Spring 15)

Co-Chair Peer Review and Support Committee (Fall 13 – Spring 15)

Member of the CAS out-of-unit promotion committee (Spring 16)

### **UNIVERSITY SERVICE**

Developed five new geology courses at FGCU

Developed a new physics special topics course at FGCU (Spring 12)

Developed a new astronomy special topics course at FGCU (Spring 12)

University Undergraduate Curriculum Team member (Fall 09 – Spring 11)

Developed Geology Minor at FGCU (Fall 12)

Developed Earth and Space Science Minor at FGCU (Spring 09)

Search committee member for Associate Professor of Educational Technology (Summer 10)

Co-submitted a new Physics minor at FGCU (Fall 12)

Interview Panel member for Coordinator of Graduate Studies (Summer 14 – Spring 15)

Interview Panel member for Graduate Studies Admissions Officer (Spring 15)

Florida Gulf Coast University Faculty Senator (2016 - Current)

### **PROFESSIONAL SERVICE**

Co-Chair Structural Geology and Tectonics I Session: Geological Society of America 104<sup>th</sup> Annual Cordilleran Section Meeting (Spring 08)

Florida State University System Common Prerequisite committee (Fall 08 – Spring 10)

USGS Florida Water Science Center, Fort Myers office, FGCU liaison (2011 -- 2014)

Geological Society of America Campus Representative for Florida Gulf Coast University (2007 -- Current)

Vice President, Everglades Geological Society (2014-2016)

Director, Everglades Geological Society (2016 - 2017)

Co-Chair, Engaging Students through Course-Based Undergraduate Research Experiences (CURE) across the Geoscience Curriculum: Theme Session, Geological Society of America 129<sup>th</sup> Annual Meeting (Fall 2017)

### **GRANTS**

NSF Transforming Undergraduate Education in STEM, Type 2: Collaborative: Expanding the Use of Online Remote Electron Microscopy in the Classroom to Transform Undergraduate Geoscience Education: Primary Investigator, 2013 – 2017, Ryan, J, Co-PI, Hickey-Vargas, R., Co-PI, MacDonald, J., Co-PI, Beck, M., \$625,344 total (\$74,510 awarded to MacDonald)

FGCU Office of Undergraduate Research mini-grant, 2013, \$500.00

FGCU Office of Research and Sponsored Programs Internal Grant Program, 2009, \$4685.00

FGCU Office of Research and Sponsored Programs Internal Grant Program, 2010, \$5000.00

FGCU Professional Development Grant, Spring 2008, \$825.45

FGCU Professional Development Grant, Fall 2009, \$1547.55

FGCU Professional Development Grant, Spring 2011, \$976.25

FGCU Professional Development Grant, Fall 2011, \$1626.30

FGCU Professional Development Grant, Fall 2012, \$1452.70

FGCU Professional Development Grant, Fall 2013, \$1372.41

FGCU Professional Development Grant, Fall 2014, \$1479.88

FGCU Professional Development Grant, Fall 2015, \$1500

FGCU Professional Development Grant, Fall 2016, \$1095

FGCU Whitaker Center for STEM Education Faculty Research and Development Grant, Spring 2008, \$500

### **AWARDS/HONORS**

American Association for the Advancement of Science and National Science Foundation's Division of Undergraduate Education invited symposium: Envisioning the Future of Undergraduate STEM Education: Research and Practice.

Nominated, Florida Gulf Coast University Junior Faculty Teaching Excellence Award

Winthrop D. Means teaching award, Earth & Atmos. Sci., SUNY Albany

Wright State University Department of Intercollegiate Athletics Scholar-Athletes

Recognized for assisting a Student-Athlete achieve academic excellence

Faculty Member, Whitaker Center for Science, Technology, Engineering and Mathematics Education

Associate Member of the Graduate Faculty, Florida Gulf Coast University

### **PROFESSIONAL MEMBERSHIPS**

Geological Society of America; American Geophysical Union

Geochemical Society; National Association of Geoscience Teachers

### **ANALYTICAL EXPERIENCE**

Sensitive High Resolution Ion Micro Probe Reverse Geometry (SHRIMP-RG)

JEOL 8900R Superprobe Electron Probe Micro-Analyzer

JEOL JSM 5900LV Scanning Electron Microscope

Cameca SX-100 Electron Probe Micro-Analyzer

PerkinElmer Elan 6100 DRC Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

X-ray Diffractometer

Ion Chromatograph

Atomic Absorption Spectrometer

Carbon-Hydrogen-Nitrogen-Sulfur analyzer

### **FIELD EXPERIENCE**

Field mapping of potentially active faults and associated sediments and rocks, Cascades, Washington.

Field mapping of Jurassic ophiolite and associated rocks, Central Cascades, Washington.

Field mapping of Jurassic plutons and associated metamorphic rocks, Central Cascades, Washington.

Field mapping of Jurassic ophiolite and overlying sedimentary rocks, Klamath Mountains, CA-OR.

Field mapping of Ordovician rocks in eastern Ulster County and western Dutchess County, New York.

Field mapping of Precambrian marbles, Pine Island, New York.

Field mapping of Cambrian-Ordovician serpentinites and ultramafic rocks, north central Vermont.

### PROFESSIONAL REVIEWS

Grant reviewer for the National Science Foundation Division of Earth Science, Tectonics Program

Panel reviewer for the National Science Foundation Division of Undergraduate Education (2015 & 2016)

Grant review for the National Research Foundation, Department of Science and Technology, Republic of South Africa

Multiple reviews for the Geological Society of America

Multiple reviews for Geochimica et Cosmochimica Acta

Reviewer of the Geoscience Concept Inventory version 2.1.1

Reviewer of the text book "The Changing Earth: Exploring geology and evolution" 5<sup>th</sup> Edition, by Monroe and Wicander, Brooks/Cole – Cengage Learning.

Reviewer of the text book "Environmental Geology Today", by McConnell and Abel, Jones & Bartlett Learning.

Reviewer of the text book "Living with Earth: an introduction to Environmental Geology", by Travis Hudson, Prentice Hall Publishing.

Reviewer of the text book "Petrology: the study of igneous, sedimentary, and metamorphic rocks", second edition, by Raymond, Waveland Press.

Reviewer of the text book "Petrology Laboratory Manual: handspecimen and thin section petrography", third edition, by Raymond, Waveland Press.

Reviewer of the text book "The Solid Earth", second edition, by Fowler, Cambridge University Press.

Reviewer of the text book "Laboratory Manual for Introductory Geology", second edition, by Ludman and Marshak, Norton & Company publishing.

### INVITED TALKS

**Invited speaker**, Wright State University: Title of talk: Tectonic evolution of the Ingalls ophiolite complex, central Cascades, Washington. Spring 2007

**Invited speaker**, Pratt Institute: Title of talk: Limestone and Marble: their geologic occurrence and artistic uses. Spring 2007

**Invited speaker**, Florida Gulf Coast University, Whitaker Center for STEM Education: Title of talk: Tectonics, Geochemistry, Their Interconnection and Importance: ROCKS -- They Know More Than You Think They Do! Fall 2007

**Invited speaker**, Everglades Geological Society: Title of talk: Tectonic Development of the Florida Basement. Spring 2013

**Invited speaker**, University of Florida: Title of talk: Late Jurassic tectonic development of the central Cascades, Washington. Spring 2014

**Invited speaker**, Florida International University: Title of talk: The Manastash inlier, Cascades, Washington: record of a Late Jurassic ridge subduction. Fall 2015

## PUBLICATIONS

### Peer Reviewed Papers

Harper, G. D., Miller, R. B., **MacDonald**, J. H., Jr., Miller, J. S., and Mlinarevic, A. N., 2003, Evolution of a polygenetic ophiolite: the Jurassic Ingalls Ophiolite, Washington Cascades: *in* Swanson, T. W., ed., Western Cordillera and adjacent areas: Boulder, Colorado, Geological Society of America Field Guide 4, p. 251-265.

**MacDonald**, J.H., Jr., Harper, G.D., and Zhu, B., 2006, Petrology, geochemistry, and provenance of the Galice Formation, Klamath Mountains, Oregon–California, *in* Snoke, A.W., and Barnes, C.G., eds., Geological studies in the Klamath Mountains province, California and Oregon: Boulder, Colorado, Geological Society of America Special Paper 410, p. 77-101.

**MacDonald**, J.H., Jr., Harper, G.D., Miller, R.B., Miller, J.S., Mlinarevic, A.N., and Schultz, C.E., 2008, The Ingalls ophiolite complex, central Cascades, Washington: Geochemistry, tectonic setting, and regional correlations, *in* Wright, J.E., and Shervais, J.W., eds., Ophiolites, Arcs, and Batholiths: A Tribute to Cliff Hopson: Geological Society of America Special Paper 438, p. 133–159.

**MacDonald**, J.H., Jr., Harper, G.D., Miller, R.B., Miller, J.S., Mlinarevic, A.N., and Miller, B.V., 2008, Geochemistry and geology of the Iron Mountain unit, Ingalls ophiolite complex, Washington: Evidence for the polygenetic nature of the Ingalls complex, *in* Wright, J.E., and Shervais, J.W., eds., Ophiolites, Arcs, and Batholiths: A Tribute to Cliff Hopson: Geological Society of America Special Paper 438, p. 161–173.

**MacDonald**, J.H., Jr., and Dragovich, J. D., 2015, Sedimentary geochemistry of the Peshastin Formation and Darrington Phyllite, Cascade Mountains, Washington State: Provenance, tectonic setting, and regional implications, *in* Anderson, T.H., Didenko, A.N., Johnson, C.L., Khanchuk, A.I., and MacDonald, J.H., Jr., eds., Late Jurassic Margin of Laurasia—A Record of Faulting Accommodating Plate Rotation: Geological Society of America Special Paper 513, p. 441–460.

Metzger, E.P., Miller, R.B., Harper, G.D., and **MacDonald**, J.H., Jr., 2016, Geochemistry of mafic rocks in the Crystalline core of the north Cascades and possible correlatives: Tectonic implications: *in*, Cheney, E.S., ed., The Geology of Washington and Beyond: from Laurentia to Cascadia: University of Washington Press, p. 156-180.

**MacDonald**, J.H., Jr., and Schoonmaker, A., 2017, Evidence of a Late Jurassic ridge subduction event: Geochemistry and age of the Quartz Mountain stock, Manastash inlier, central Cascades, Washington: *Journal of Geology*, v. 125, p. 423–438.

**MacDonald**, J.H., Jr., Dragovich, J., Pecha, M., \*Thompson, G.T., \*Stingu, S.C., \*Maruszczak, A.D., \*Zalud, K.M., and \*Milliken, S.H., 2017, Mesozoic terranes of the central Cascades: Geology of the Hicks Butte complex, Easton Metamorphic Suite, Peshastin Formation and Ingalls ophiolite complex: *in* Haugerud, R., and Kelsey, H., eds.: Boulder, Colorado, Geological Society of America Field Guide 49.

### Edited Books

**MacDonald**, J. H., Jr., 2008, editor, GLY 1000C: Physical and Historical Geology Manual: Plymouth, Michigan, Hayden-McNeil Publishing, 108 p., ISBN 978-0-7380-2885-9

Anderson, T.H., Didenko, A.N., Johnson, C.L., Khanchuk, A.I., and **MacDonald**, J.H., Jr., eds., 2015, Late Jurassic Margin of Laurasia—A Record of Faulting Accommodating Plate Rotation: Boulder, Colorado, Geological Society of America Special Paper 513, 606 p., ISBN 978-0-8137-2513-0

## Peer Reviewed Geologic Maps

- Dragovich, J.D., Littke, H.A., Anderson, M.L., Hartog, R., Wessel, G.R., DuFrane, S.A., Walsh, T.J., **MacDonald**, J.H., Jr., Mangano, J.F., and Cakir, R., 2009, Geologic map of the Snoqualmie 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-75, scale 1:24,000, 2 sheets.
- Dragovich, J.D., Littke, H.A., Anderson, M.L., Wessel, G.R., Koger, C.J., Saltonstall, J.H., **MacDonald**, J.H., Jr., Mahan, S.A., DuFrane, S.A., and Hartog, R., 2010, Geologic Map of the Carnation 7.5-minute Quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Geologic Map OFR-2010-1, scale 1:24,000, 1 sheet with 21 p. text.
- Dragovich, J.D., Anderson, M.L., Mahan, S.A., **MacDonald**, Jr., J.H., McCabe, C.P., Cakir, R., Stoker, B.A., Villeneuve, N.M., Smith, D.T., and Bethel, J.P., 2012, Geologic map of the Lake Joy 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources, Map Series 2012-01, 2 sheets, 79 p.
- Dragovich, J.D., Littke, H.A., Mahan, S.A., Anderson, M.L., **MacDonald**, J.H., Jr., Cakir, R., Stoker, B.A., Koger, C.J., Bethel, J.P., DuFrane, S.A., Smith, D.T., and Villeneuve, N.M., 2013, Geologic map of the Sultan 7.5-minute quadrangle, King and Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2013-01, scale 1:24,000, 1 sheet, 49 p.
- Dragovich, J.D., Frattali, C.L., Anderson, M.L., Mahan, S.A., **MacDonald**, J.H., Jr., Stoker, B.A., Smith, D.T., Koger, C.J., Cakir, R., DuFrane, S.A., and Sauer, K.B. 2014, Geologic map of the Lake Chaplain 7.5-minute quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2014-01, scale 1:24,000, 1 sheet, 51 p.
- Dragovich, J.D., Mahan, S.A., Anderson, M.L., **MacDonald**, J.H., Jr., Schliter, J.F., Frattali, C.L., Koger, C.J., Smith, D.T., Stoker, B.A., DuFrane, S.A., Eddy, M., Cakir, R., and Sauer, K.B., 2015, Geologic Map of the Lake Roesiger 7.5-minute Quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map 2015-01, scale 1:24,000, 1 sheet, 47 p.

## Peer Reviewed Teaching Material Contribution

- MacDonald**, J. H., Jr and, Holbik, S., 2015. Feldspar mineral chemistry using the FCAEM remotely operable electron probe micro-analyzer: Science Education Resource Center (SERC), On the Cutting Edge, Teaching Mineralogy Topical Resources.  
<http://serc.carleton.edu/NAGTWorkshops/mineralology/activities/113251.html>

## Internally Reviewed Open File Reports

- Dragovich, J. D., Littke, H. A., **MacDonald**, J. H., Jr., DuFrane, S. A., Anderson, M. L., Wessel, G. R., and Hartog, R., 2009, Geochemistry, geochronology, and sand point count data for the Snoqualmie 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Open File Report 2009-4, 3 digital appendices, 35 p.
- Dragovich, J.D., Anderson, M.L., **MacDonald**, J.H., Jr., Hartog, R., Mahan, S.A., DuFrane, S.A., Littke, H.A., Wessel, G.R., Saltonstall, J.H., and Koger, C.J., 2010, Supplement to the geologic map of the Carnation 7.5-minute quadrangle, King County, Washington—Geochronologic, geochemical, point count, geophysical, earthquake, fault, and neotectonic data: Washington Division of Geology and Earth Resources Open File Report 2010-2, 8 digital appendices, 42 p.
- Dragovich, J.D., Mahan, S.A., Anderson, M.L., **MacDonald**, J.H., Jr., Wessel, G.R., DuFrane, S.A., Cakir, R., Bowman, J.D., and Littke, H.A., 2011, Supplement to the Geologic Map of the Monroe 7.5-minute Quadrangle, King and Snohomish Counties, Washington— Geochronologic, Geochemical, Point Count, Geophysical, Earthquake, and Fault, and Neotectonic Data: Washington Division of Geology and Earth Resources Open File Report 2011-2, 61 p., 2 plates, 2 digital appendices.

Dragovich, J.D., Anderson, M.L., Mahan, S.A., Koger, C.J., Saltonstall, J.H., **MacDonald**, J.H., Jr., Wessel, G.R., Stoker, B.A., Bethel, J.P., Labadie, J.E., Cakir, R., Bowman, J.D., and DuFrane, S.A., 2011, Geologic Map of the Monroe 7.5-minute Quadrangle, King and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map OFR-2011-1, scale 1:24,000, 1 sheet with 24 p. text.

Dragovich, J.D., Mavor, S.P., Anderson, M.L., Mahan, S.A., **MacDonald**, J.H., Jr., Tepper, J.H., Smith, D.T., Stoker, B.A., Koger, C.J., Cakir, R., DuFrane, S.A., Scott, S.P., and Justman, B.J., 2016, Geologic map of the Granite Falls 7.5-minute quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Map Series 2016-03, scale 1:24,000, 1 sheet, 63 p.

### Refereed Abstracts Presented at Scientific Meetings

#Anderson, M. L., Dragovich, J. D., Mahan, S. A., **MacDonald**, J. H., Jr., Koger, C. J., Cakir, R., Allen, M., Mavor, S., Blakely, R. J., and Wells, R. E., 2017, No strain left behind: the Puget lowland neotectonic fault network: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303304.

Anderson, T.H., Didenko, A., Johnson, C., Khanchuk, A., and **MacDonald**, J.H., Jr., 2015, The Middle Jurassic margin of Laurasia—a record of faulting accommodating plate rotation: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 674.

Beck, M., Ryan, J., Vidito, C., **MacDonald**, J.H., Jr., and Hickey-Vargas, R., 2017, Using a remotely-accessed scanning electron microscope (SEM) to evaluate sands in a 2-year college earth science class: Geological Society of America, Abstracts with Programs, vol. 49, no. 2, doi: 10.1130/abs/2017NE-290720.

Hickey-Vargas, R., Holbik, S., Ryan, J., **MacDonald**, J.H., Jr., and Beck, M., 2015, Expanding the Use of Online Remote Electron Microscopy in the Classroom to Transform Undergraduate Geoscience Education: Successes and strategies for increasing faculty and student engagement: American Geophysical Union Fall Meeting, Abstracts with Programs, Paper # ED11C-0865.

Dragovich, J. D., Mahan, S. A., Anderson, M., **MacDonald**, J. H., Jr., Frattali, C. L., Littke, H. A., Stoker, B. A., Koger, C. J., Smith, D. T., and Dufrane, S. A., 2014, The Monroe fault, anticline, and synclinal basin – a potentially active fault and fold system in the Skykomish River valley, Snohomish County, Washington: Geological Society of America, Abstracts with Programs, vol. 46, no. 6, p. 779.

Dragovich, J. D., Anderson, M. L., Mahan, S. A., **MacDonald**, J. H., Jr., Tepper, J. H., Mavor, S., Koger, C. J., Cakir, R., Stoker, B. A., Smith, D. T., and Dufrane, S. A., 2017, Geology of the Granite Falls 7.5-minute quadrangle area—a rich history of neotectonic basin development and inversion to Mesozoic accretionary tectonics in the foothills of Snohomish county, Washington: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303645.

Dragovich, J. D., Tepper, J. H., **MacDonald**, J. H., Jr., Dufrane, S. A., Anderson, M. L., Koger, C. J., Mavor, S., \*Thompson, G. T., and Eddy, M. P., 2017, Granite Falls stock and the Hansen Lake rhyolite—a history of syn-tectonic Eocene magmatism and uplift in the Pilchuck River valley during regional transtension, Snohomish county, Washington: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-303468.

\*Easterbrook, M. A., and **MacDonald**, J. H., Jr., 2017, Mineral chemistry of the Camas Land diabase, central Cascades, Washington: a sill within the Eocene Chumstick Formation: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-301296.

\*Foster, B. A., **MacDonald**, J. H., Jr., and \*Girt, A. D., 2012, Restoration revisited: comparative analysis of soils within a created and natural wetland at Florida Gulf Coast University, Fort Myers, Florida: Geological Society of America, Abstracts with Programs, vol. 44, no. 4, p.5.

- Goodwin, B. P., Waines, R. H., and **MacDonald**, J. H., Jr., 2003, Preliminary stratigraphy and structure of a medial Ordovician Mount Merino inlier within the Livingston Taconic tectonic thrust slice in west-central Dutchess County, mid-Hudson valley, New York: Geological Society of America Abstracts with Programs, v. 35, no. 3, p. 94.
- Holbik, S., Ryan, J., Hickey-Vargas, R., **MacDonald**, J. H., Jr., and Beck, M.A., 2015, Enabling and facilitating undergraduate research through the use of remotely operable EPMA and SEM instrumentation in introductory and upper-level geoscience curriculum: early success and challenges: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 621.
- Holbik, S., Ryan, J. G., Hickey-Vargas, R., **MacDonald**, J. H., Jr., Beck, M. A., and, Vidito, C., 2017, Transforming undergraduate education in the geosciences using remotely-operated electron probe microanalyzer and scanning electron microscope: CUREs: Geological Society of America, Abstracts with Programs, v. 49, no. 6, doi: 10.1130/abs/2017AM-306942.
- Littke, H. A., Dragovich, J. D., Anderson, M., Hartog, R., Wessel, G. R., Dufrane, S. A., Walsh, T. J., **MacDonald**, J. H., Jr., and Cakir, R., 2009, Geologic map of the Snoqualmie 7.5-minute quadrangle, King County, Washington—active faulting, basin inversion and Miocene volcanic extrusion of the Snoqualmie batholith along the Rattlesnake Mountain fault zone: Geological Society of America, Abstracts with Programs: v. 41, no. 7, p. 457.
- #MacDonald**, J.H., Jr., Harper, G.D., Miller, R.B., and Miller, J.S., 2002, Within-plate magmatic affinities of a lower pillow unit in the Ingalls Ophiolite Complex, northwest Cascades, Washington: Geological Society of America, Abstracts with Programs, v. 34, no. 5, p. A-22.
- MacDonald**, J. H., Jr., Harper, G. D., and Miller, R. B., 2003, The De Roux unit of the central Cascades, Washington: geochemistry, tectonic setting, and possible correlations: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 513.
- MacDonald**, J.H., Jr., Harper, G.D., Miller, J.S., and Zhu, B., 2004, Petrology, provenance, and further age control of the Galice Formation, Klamath Mountains, Oregon-California: Geological Society of America, Abstracts with Programs, v. 36, no. 4, p. 36.
- MacDonald**, J. H., Jr., Harper, G. D., Miller, R. B., Miller, J. S., and Mlinarevic, A. N., 2004, Geochemistry and possible tectonic setting of the Esmeralda Peaks unit, and related rocks, Ingalls Ophiolite Complex, Washington: Geological Society of America, Abstracts with Programs, v. 36, no. 5, p. 23.
- MacDonald**, J. H., Jr., and Harper, G. D., 2005, Geochemistry and possible tectonic origin of mafic units from the Manastash inlier, Central Cascades, Washington: Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 71.
- #MacDonald**, J. H., Jr., Harper, G. D., Miller, R. B., Miller, J. S., Mlinarevic, A. N., and Schultz, C. E., 2005, The Polygenetic Ingalls Ophiolite Complex and its Relationship to the Josephine and Coast Range ophiolites: Geological Society of America, Abstracts with Programs, v. 37, no. 4, p. 85.
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