

## PATRICIA A. RAMEY-BALCI

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### EDUCATION

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2008 **Ph.D.** Rutgers, The State University of New Jersey, USA (Ecology & Evolution)  
2001 **M.Sc.** Memorial University of Newfoundland, Canada (Biological Sciences)  
1997 **B.Sc.** Acadia University, Nova Scotia, Canada (Biology-Honors)

### PROFESSIONAL EXPERIENCE

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June 2019– Assistant Professor, Department Molecular Biology & Genetics, Koç University, Turkey  
2016–2019 Research Assistant Professor, College of Sciences, Koç University, Turkey  
2014–2015 Visiting Researcher, Koç University, Turkey  
2012–2014 Senior Researcher, Marmara Research Center (MRC), Environmental Institute, at TÜBİTAK (Scientific and Technological Research Council of Turkey), Turkey  
2010– 2011 Research Scientist, Senckenberg Research Institute & Natural History Museum, Germany  
2008–2010 Postdoctoral Research Faculty, Benthic Ecology, Institute of Marine & Coastal Sciences, Rutgers University, USA  
2002–2008 Graduate Assistant, Rutgers University, USA  
2001–2002 Teaching Assistant, Rutgers University, USA  
2000–2001 Oceanographic Research Assistant, Fisheries Conservation Chair, Fisheries & Marine Institute, Canada  
1998–2000 Laboratory Demonstrator, Memorial University of Newfoundland, Canada  
1994–1997 Laboratory Demonstrator, Acadia University, Canada  
1994–1995 Field & Laboratory Environmental Research Technician, Kejimikujik National Park & Acadia Center for Estuarine Research, Canada

### RESEARCH INTERESTS

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Marine community ecology; and integration of molecular techniques in biodiversity and ecological research. Research is primarily focused on soft-sediment benthic macroinvertebrates. Emphasis is on: 1. marine pollution, anthropogenic impacts, and climate change in coastal environments; 2. biodiversity, DNA barcoding, biotic indices, phylogeography, taxonomy, and phylogenetics; 3. the role of pre- and post-settlement dispersal and habitat selection in creating benthic community patterns at multiple spatial and temporal scales; 4. population dynamics and life history traits; 5. linking pattern and process using experimental approaches; and 6. multidisciplinary/collaborative research.

### EDITORIAL ACTIVITIES

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2019-present Associate Editor and Editorial Board Marine Biology  
2014–present Associate Editor and Editorial Board, Estuaries & Coasts  
-2019: 11 manuscripts; 2018: 8; 2017: 16; 2016: 11; 2015: 7; 2014: 1  
2008–present Reviewer for: Marine Ecology Progress Series, Marine Biology, Journal of Marine Biological Association of the UK, Estuaries and Coasts, Journal of Marine Systems,

## GRANTS AND CONTRACTS

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- 2017 – TÜBİTAK 3001 (Scientific & Technological Research Council, Turkey): *Species responses to contaminated sediments: An in situ experiment to inform benthic indices*. Principal Investigator. 104,000TL (awarded 2017; start date Mar. 2018)
- 2016–2018 Seed Research Grant, Koç University: *Biodiversity in sediments at methane seeps on mud volcanoes in the Mediterranean Sea, Turkey* (Bio-MedSea). Principal Investigator. 73,000 TL
- 2016 KOLT Teaching & Innovation Grant, Koç University: “*Promoting active learning and critical thinking*”. To P. Ramey-Balci. 5000 TL
- 2013 Scientific & Technological Research Council, Turkey (TÜBİTAK), Marmara Research Center: *Infrastructure project to establish a molecular DNA barcoding laboratory*. Principal Investigator. 142,883 TL
- 2012-2015 New Jersey Department of Environmental Protection: *Benthic Invertebrate Community Monitoring and Indicator Development for Barnegat Bay*. Co-Manager. (G. Taghon, PI). Total project 514,899 USD
- 2012–15 New Jersey Department of Environmental Protection: *Benthic Invertebrate Community Monitoring and Indicator Development for Barnegat Bay*. Sub-contractor. (54, 000 USD; 3 subcontracts).
- 2010–2012 German Science Foundation: *Systematic revision and phylogeny of the Polygordiidae Czerniavsky, 1881 (Annelida: Polychaeta) based on morphological and molecular methods*. Co-investigator. (D. Fiege, PI) 133,933 Euro
- 2009-2010 U.S. Environmental Protection Agency: *New Jersey Coastal Benthic Indicators Project*. Co-investigator. (M.J. Kennish, Co-PI). Total Project 426,301 USD
- 2009–2010 U.S. Environmental Protection Agency: *New Jersey Coastal Benthic Indicators Project*. Sub-contractor. (36,881 USD; 2 subcontracts)
- 2009–2010 National Science Foundation – rapid response (NSF-RAPID): *Role of Ephemeral Bottom Roughness Patches in Unpredictable Recruitment of Surfclams on the Continental Shelf*. Co-Investigator. (C.M. Fuller, PI). 99,989 USD
- 2003–2006 Graduate Student Research Grants, Institute of Marine and Coastal Sciences (IMCS), Rutgers University, NJ-USA. Principal Investigator. 3,500 USD (received from four separate proposals)

## PROJECT INVOLVEMENT

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- 2012–14 MICRO B3 (AB-FP7): *Marine microbial biodiversity, bioinformatics and biotechnology*. Researcher. Total project 268,200 TL
- 2012–14 Ministry of Environment and Urbanization Turkey: *Determination and classification of marine and coastal water quality DEKOS*. Researcher. Total project 1,665,000 TL

## PUBLICATIONS

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### A. ISI \*=UNDERGRADUATE STUDENT

Blake, J.A., **Ramey-Balci, P.A.** A new genus and species of Spionidae (Annelida, Polychaeta) from a deep-water cold seep site in the Eastern Mediterranean Sea off Turkey. (submitted September 2019, ZooSymposia)

Wei, C.-L., Cusson, M., Archambault, P., Belley, R., Brown, T., Burd, B.J., Edinger, E., Kenchington, E., Gilkinson, K., Lawton, P., Link, H., **Ramey-Balci, P.A.**, Scrosati, R.A., Snelgrove, P.V.R. Seafloor Biodiversity of Canada's Three Oceans: patterns, hotspots, and potential drivers. (Pending revision **April 2019** for: Diversity and Distributions ).

**Ramey-Balci, P.A.**, Fiege, D., Torsten, S. (2018). Molecular phylogeny, morphology, and distribution of *Polygordius* (Polychaeta: Polygordiidae) in the Atlantic and Mediterranean. Molecular Phylogenetics and Evolution 127: 119–930 (Impact factor: 4.4).

Taghon, G.L., **Ramey-Balci, P.A.**, Fuller, C.M., Petrecca, P.R., Grassle, J.P., and Belton, T (2017). Benthic invertebrate community composition and sediment properties in Barnegat Bay, New Jersey, 1965 to 2014. Journal of Coastal Research 78: 169–183.

Taghon, G.L., **Ramey-Balci, P.A.**, Fuller, C.M., Petrecca, P.R., and Grassle, J.P. (2017) Benthic community structure and sediment properties in Barnegat Bay, New Jersey, before and after Hurricane Sandy. Estuaries and Coasts 40: 160–172. DOI 10.1007/s12237-016-0133-x

Lehmacher, C., **Ramey-Balci, P.A.**, Wolff, L.I., Fiege, D., and Purschke, G. (2016) Ultrastructural differences in presumed photoreceptive organs and molecular data as a means for species discrimination in *Polygordius* (Annelida, Protodriliformia, Polygordiidae). Organisms, Diversity and Evolution 16: 559–576. DOI 10.1007/s13127-016-0272-8)

**Ramey-Balci, P.A.**, and Ambler, J. (2014) Distribution and seasonal abundance of *Polygordius* spp. (Class: Polychaeta; Family: Polygordiidae) exo- and endolarvae in the southern Mid-Atlantic Bight, USA. Marine Biology 161: 1565–1581. DOI 10.1007/s00227-014-2441-7

Balci, F., **Ramey-Balci, P.A.**, and \*Ruamps, P. (2014) Spontaneous alternation and locomotor activity in three species of marine crabs: Green crab *Carcinus maenas*, blue crab *Callinectes sapidus*, and fiddler crab *Uca pugnax*. Journal of Comparative Psychology 128: 65–73

Fiege, D., **Ramey, P.A.**, and Ebbe B. (2010) Diversity and distributional patterns of Polychaeta in the deep South Atlantic. Deep-Sea Research I 57: 1329–1344

Grassle, J.F., **Ramey, P.A.**, and Petrecca, R.F. (2009) Temporal and spatial variation in infaunal community structure in physically active continental shelf sediments at a long-term ecosystem observatory (LEO-15) off New Jersey, USA. Journal of Marine Research 67: 869–897

**Ramey, P.A.**, Grassle, J.P., Grassle, J.F., and Petrecca, R. M. (2009) Small-scale, patchy distributions of infauna in hydrodynamically mobile continental shelf sands: Do ripple crests and troughs support different communities? Continental Shelf Research 29: 2222–2233

**Ramey, P.A.**, \*Teichman, L., \*Oleksiak, J., and Balci, F. (2009) Spontaneous alternation in marine crabs: Invasive versus native species. Behavioral Processes 82: 51–55

Avery, L., **Ramey, P.A.** and Wilson, R. (2009) New Polygordiidae (Polychaeta) from the Australian Region. Zootaxa 2068: 59–68

Schofield, O., Chant, R., Cahill, B., Castelao, R., Gong, D., Kahl, A., Kohut, J., Montes-Hugo, M., Ramadurai, R., **Ramey, P.**, Yu, X. and Glenn, S. (2008) The decadal view of the Mid-Atlantic Bight from the COOLroom: is our coastal system changing? Oceanography 21: 109–117

**Ramey, P.A.** and \*Bodnar, E. (2008) Selection by a deposit-feeding polychaete, *Polygordius jouinae*, for sands with relatively high organic content. Limnology and Oceanography 54: 1512–1520

**Ramey P.A.** (2008) Life history and population dynamics of a dominant polychaete, *Polygordius jouinae*, in inner continental shelf sands of the Mid-Atlantic Bight, USA. Marine Biology 154: 443–452

**Ramey, P.A.**, Fiege, D. and Leander B.S. (2006) A new species of *Polygordius* (Polychaeta: Polygordiidae) from the inner continental shelf and in bays and harbours of the north-eastern United States. Journal of the Marine Biological Association of the United Kingdom 86:1025–1034

Leander, B.C., and **Ramey, P.A** (2006) Cellular identity of a novel small subunit rDNA sequence clade of apicomplexans. Description of the marine parasite *Rhytidocystis polygordiae* n. sp. (Host: *Polygordius* sp., Polychaeta). Journal of Eukaryote Microbiology 53: 280–291

**Ramey P.A.** and Snelgrove P.V.R. (2003) Spatial patterns in coastal and shelf sedimentary macrofaunal communities on the south coast of Newfoundland in relation to surface oceanography and sediment characteristics. Marine Ecology Progress Series 262:215–22

#### **B. OTHER PUBLICATIONS (MAGAZINES, BOOKS, REPORTS)**

Taghon, G., Grassle, J.P., Fuller, C.M., Petrecca, R.F., and **Ramey, P.** (2016). Benthic Invertebrate Community Monitoring and Indicator Development for the Barnegat Bay-Little Egg Harbor Estuary, NJDEP Barnegat Bay Year 3 Final Report. <http://nj.gov/dep/dsr/barnegat/final-reports/benthic-invertebrate-reports.htm>

Taghon, G., Grassle, J.P., Fuller, C.M., Petrecca, R.F., and **Ramey, P.** (2014). Benthic Invertebrate Community Monitoring and Indicator Development for the Barnegat Bay-Little Egg Harbor Estuary, NJDEP Barnegat Bay Year 2. <http://nj.gov/dep/dsr/barnegat/final-reports/benthic-invertebrate-monitoring-year2.pdf>

Taghon, G., Grassle, J.P., Fuller, C.M., Petrecca, R.F., and **Ramey, P.** (2013). Benthic Invertebrate Community Monitoring and Indicator Development for the Barnegat Bay-Little Egg Harbor Estuary, NJDEP Barnegat Bay Year 1. <http://nj.gov/dep/dsr/barnegat/final-reports/benthic-invertebrate-monitoring-year1.pdf>

**Ramey-Balci, P.A.**, and Raineault, N.A. (2014). Deep-sea Mud Volcanoes off the Coast of Turkey (In Turkish: Türkiye'nin Derin Deniz Çamur Volkanları). Bilim ve Teknik Dergisi, Haziran, no. 559: 80–85

**Ramey-Balci, P.A.**, Fiege, D., Purschke, G. (2013) 7.5. Polygordiida: Polygordiidae Czerniavsky, 1881. In: *Handbook of Zoology. Annelida*. Westheide, W., Purschke, G. (eds.) DeGruyter, Berlin (Zoology Online. Walter de Gruyter, Berlin, 2012. <http://www.degruyter.com/view/Zoology> (published online ahead of print)).

Raineault, N.A., **Ramey-Balci, P.A.**, Shank, T.M., Bors, E., Duman, M., Ürkmez, D., and Tüzün, S. (2013) Exploration of the Anaximander Mountains: Mud Volcanoes, Cold-Seep communities, and Cold Water Corals. In: *New frontiers in ocean exploration: The E/V Nautilus 2012 field season and summary of Mediterranean exploration*, Bell, K.L.C., and Brennan, M.L., (eds.) Oceanography 26(1), p. 30–35, <http://dx.doi.org/10.5670/oceanog.2013.supplement.01>

**Ramey-Balci, P.A. (2013)** Antalya’da Derin Deniz Çamur Volkanlarını Araştırdı. Türkiye Bilimsel ve Teknolojik Araştırma Kurumu, May, p. 31

**Ramey, P.A.,** Kennish, M.J., and Petrecca, R.M. (2011) Benthic index development: Assessment of ecological status of benthic communities in New Jersey marine coastal waters. Technical Report to the U.S. Environmental Agency and New Jersey Department of Environmental Protection, Institute of Marine and Coastal Sciences, Rutgers University, New Jersey, pp. 71, APPENDIX 121 pp. <http://marine.rutgers.edu/main/Front-Page-News/Rutgers-Study-Assesses-the-Condition-of-New-Jersey-Coastal-Ocean-Waters.html>

**Ramey, P.A.** and Fiege, D. (2007) “A famous– or infamous marine worm”. Global Marine Environment 5, pg. 16

**Ramey, P.A. (1997)** Stream Invertebrates. In: Brylinsky, M. Grafton Watershed Ecological Restoration Monitoring Project, Kejimikujik National Park: Phase II Final Report. Center for Wildlife and Conservation Biology, Acadia University. To: Environment Canada Parks and Supply and Services Canada: Contract No. C4600-5- 0059/01-Hal 130 pp

### C. IN-PREP

**Ramey-Balci, P.A.,** Mikac, B., and Fiege, D. (In-prep) Three species of *Polygordius* (Annelida: Polychaeta) revealed in the Adriatic Sea with a re-description of *P. triestinus* Hempelmann, 1906 supported by morphological and molecular evidence

**Ramey-Balci, P.A.,** Vijapure, T.V., Domenico, M.D., and Sukumaran, S. (In-prep) Redescription of *Polygordius eschaturus* Du-Bois Reymond Marcus 1848 from Brazil with a new species designation (*P. somnathensis* sp. nov), and notes on *P. eschaturus brevipapillosus* from India (Polychaeta: Polygordiidae)

### D. Thesis and dissertations

**Ramey P.A. (2008)** Processes affecting macrofaunal community structure in sandy sediments on the New Jersey inner continental shelf with a focus on the dominant polychaete *Polygordius jouinae*. PhD Dissertation, Rutgers, The State University of New Jersey

**Ramey, P.A. (2001)** Factors influencing patterns in distribution, abundance and diversity of sedimentary macrofauna in deep, muddy sediments of Placentia Bay, Newfoundland and adjacent shelf. Masters Dissertation, Memorial University of Newfoundland

**Ramey, P.A. (1997)** Recolonization and changes in community structure of benthic macroinvertebrates associated with habitat changes in Grafton Lake Kejimikujik National Park, Nova Scotia. Honors Thesis, Acadia University

### E. PUBLISHED ABSTRACTS (ORAL PRESENTATIONS AND POSTERS) \*=UNDERGRADUATE

\*Çimen, B., Keskin, G., Turan, S., Hacıoğlu, D., **Ramey-Balci, P.A (2019)** Soft-sediment Macroinvertebrates in Istanbul Strait in Relation to Season and Varying Levels of Sediment Contamination. Ecology and Evolutionary Biology Symposium, Ankara, Turkey, Jul. 10–12

Haciu, D., Tekin, E., Öztürk, G., **Ramey-Balci, P.A** (2019) Determination of Metals in the Surface Sediments of the Istanbul Strait. 2st International Conference on Chemistry (ICC), Istanbul, Turkey, Aug 15–16.

**Ramey-Balci, P.A.**, Raineault, N., Ürkmez, D. (2018) Biodiversity in soft-sediments of mud volcanoes in the eastern Mediterranean Sea. 4<sup>th</sup> World Conference on Marine Biodiversity, Montréal, Canada, May 13-16. PeerJ Preprints 6:e26955v1 <https://doi.org/10.7287/peerj.preprints.26955v1>

Wei, C.L., Cusson, M., Archambault, P., Belley, R., Bourque, M., Brown, T., Burd, B.J., Edinger, E., Kenchington, E., Gilkinson, K., Lemieux, J., Lévesque, M., Link, H., Piot, A., **Ramey-Balci, P.A.**, Scrosati, R.A., Séguin, A., Snelgrove, P.V.R. (2018). Canada's three oceans of seafloor biodiversity: patterns, hotspots, and potential drivers. 4th World Conference on Marine Biodiversity, Montreal, Canada, May 13-16.

\*Agaoglu, C., Tanrikulu, S., Cimen, B, **Ramey-Balci, P.A.** (2018) WHAT LIES BENEATH: Macroinvertebrate Communities on Deep-Sea Mud Volcanoes. Koç University Science Fair, KU Turkey, May 17

\*Ozler, C., Cimen, B., Erten, C., Kimura, K., **Ramey-Balci, P.A.** (2018) THE DARK SIDE OF THE MEDITERRANEAN SEA: Biodiversity and microhabitats at Cold Seeps on Mud Volcanoes. Koç University Science Fair, KU Turkey, May 17

\*Öztürk, G., Tekin, E.S., Beyhan, B., Haciu, D., **Ramey-Balci, P.A.** (2018) Preliminary Work for Species Responses to Contaminated Marine Sediments: A Short-Term in-situ Experiment to Inform Benthic Indices. Koç University Science Fair, KU Turkey, May 17

Taghon, G.L., **Ramey-Balci, P.A.**, Fuller, C.M., Petrecca, P.R., Grassle, J.P. (2016). Benthic index development for Barnegat Bay, USA based on three years of macrofaunal data. International Polychaete Conference (IPC), Cardiff, Wales, Aug. 1–5

Wei, C.L., Cusson, M., Archambault, P., Snelgrove, P.V.R., Belley, R., Bourque, M., Burd, B.J., Conley, K., Scrosati, R.A., Lemieux, J., Lévesque, M., Link, H., Piot, A., **Ramey-Balci, P.A.**, Séguin, A. (2014). Toward assessing Canada's seafloor biodiversity: the Canadian Healthy Oceans Network's (CHONe) Three Oceans of Benthic Biodiversity Database (TOBBS). 43rd Benthic Ecology Meeting, Jacksonville, Florida, USA, Mar. 19-22.

**Ramey-Balci, P.A.**, Fiege, D., Struck, T.H. (2013) Phylogeography and taxonomy of *Polygordius* species and the colonization of the Mediterranean Sea. 106<sup>th</sup> Annual Meeting of the German Zoological Society, Munich, Germany, Sep. 13–16

Lehmacher, C., Wolff, L.I., Wilkens, V., Purschke, G., **Ramey-Balci, P.A.**, and Fiege, D. (2013) Species distinction in *Polygordius* (Annelida): Ultrastructure of photoreceptor-like sense organs as an additional character? International Polychaete Conference (IPC), Sydney, Australia, Aug. 4–9

**Ramey-Balci, P.A.** and Sozer, B. (2012) Perspectives from the benthos: role of molecular tools and bioinformatics in biodiversity and ecological research. Marine Biotechnology and genomics workshop, Turkish Marine Research Foundation (TUDAV), Bodrum, Muğla, Turkey, May 24–25

Wolff, L.I., Wilkens V., Lehmacher C., Purschke G., **Ramey-Balci P.A.**, and Fiege, D. (2012) Ultrastructure of photoreceptor-like sense organs in *Polygordius* (Annelida: Polychaeta): a possible

character for species distinction? University of Bonn, the Zoologisches Forschungsmuseum Alexander Koenig, Bonn, Germany, Feb. 23–25

**Ramey P.A. (2011)** From field observations to flume experiments: selection by a deposit-feeding polychaete for sands with relatively high organic content. European Marine Biology Symposium (EMBS), Rovinj, Croatia, Sep. 12–16

**Ramey P.A.**, and Fiege, D. (2011) Global and local distribution patterns and diversity of an ecologically important group of marine worms. Marine Biology Symposium (EMBS), Rovinj, Croatia, Sep. 12–16

Fuller, C.M., Petrecca R.F., **Ramey P.A.**, Taghon G.L., Grassle J.P, Fuchs H.L. (2011) Role of bottom roughness and survival of surfclams, *Spisula solidissima*, on the New Jersey continental shelf. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, Feb. 13–18

\*Goss, J. and **Ramey, P.A. (2010)** Recruitment and mortality of surfclams, *Spisula solidissima*: field and flume experiments. Ocean Sciences Meeting, Portland, Oregon, USA February 22–26

**Ramey, P.A.**, Balci, F.; \*Ruamps, P.; \*Oleksiak, J.; and \*Teichman, E. (2010) An experimental model to assess the exploratory activity and efficiency in invasive vs. native species of marine crabs. Benthic Ecology Meeting (BEM), Wilmington, North Carolina, USA March 10–14

\*Chen, Y, and **Ramey, P.A. (2010)** Effect of habitat on growth rate of juvenile Atlantic surfclams, *Spisula solidissima*, in an annular flume: shell-hash vs. flat sand bed. Benthic Ecology Meeting (BEM), Wilmington, North Carolina, USA March 10–14

**Ramey, P.A.**, Ambler, J., and Fiege, D. (2010) Spatial and seasonal patterns in distribution and abundance of *Polygordius* larvae along the east coast of the United States. International Polychaete Conference (IPC), Lecce, Italy, June 17–23

**Ramey, P.A.** and Fiege, D. (2010) Three new species of *Polygordius* (Family: Polygordiidae) from North America. International Polychaete Conference (IPC), Lecce, Italy, June 17–23

**Ramey, P.A.** and Fiege, D. (2008) Undescribed diversity in the genus *Polygordius* (Annelida: Polychaeta): Pygidial glands as a useful taxonomic character. 18th International Symposium "Biodiversity and Evolutionary Biology" of German Botanical Society, Göttingen, Germany April 1–7

**Ramey, P.A. (2008)** Climate variability and temporal trends in abundance of a dominant polychaete on the Northwest Atlantic continental shelf. ASLO 2008 Interactions On the Edge, St. John's Newfoundland and Labrador, Canada June 8–13

\*Schroth-Miller, M., **Ramey, P.A.**, and Chant, R. (2008) Long-term variability in surfclam recruitment in relation to climate and local physical factors. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting (MABPOM), Woods Hole, MA., USA September 22–23

\*Schroth-Miller, M., **Ramey, P.A.**, and Chant, R. (2008) Long-term variability in surfclam recruitment in relation to climate and local physical factors. American Geophysical Union (AGU), San Francisco, California, USA December 15–19

\*Bodnar, E and **Ramey, P.A. (2007)** *Polygordius*, an ambitious marine worm. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, New Mexico, USA February 4–9

**Ramey, P.A.** and Quijón, P.A. (2007) Flumes and marine benthos: A single approach to tackle an array of research questions. #14 Northeast Biological Graduate Student Conference, Halifax, Nova Scotia, Canada February 23–25

**Ramey, P.A.** and \*Bodnar, E (2007) Active post-settlement habitat selection, by a deposit-feeding polychaete, *Polygordius jouinae*, in a laboratory flume. Benthic Ecology Meeting (BEM), Atlanta Georgia, USA. March 21–25

**Ramey, P.A.** and Fiege, D (2007) Undescribed diversity in the genus *Polygordius*: pygidial glands as a useful taxonomic character. International Polychaete Meeting (IPC), Portland Maine, USA August 12–18

**Ramey, P.A.** and Snelgrove, P.V.R. (2003) Spatial patterns in coastal and shelf sedimentary macrofaunal communities on the south coast of Newfoundland in relation to surface oceanography and sediment characteristics. Gordon Research Conference on Permeable Sediments, Bates College, Lewiston, Maine, USA June 15–20

**Ramey, P.A.** and Snelgrove, P.V.R. (2002) Macrofaunal community structure in muddy sediments in relation to surface oceanography and sediment characteristics off Newfoundland. #8 International Polychaete conference (IPC), Madrid, Spain July 5–9

**Ramey, P.A.** (2000) Does surface oceanography regulate pattern in coastal and shelf sedimentary communities on the South Coast of Newfoundland? Benthic Ecology Meeting (BEM), Wilmington, North Carolina, USA March 9–12

#### **F. WORKSHOPS & SCIENTIFIC MEETINGS**

2017 Turkish-German Frontiers of Social Science Symposium (TUGFOSS), "Mediterranean(s) in the making: perceptions and realities", Germany, November 9–12

2016 Turkish-German Frontiers of Social Science Symposium (TUGFOSS), "Forced Migration: Structures, Actors, Processes", Germany, November 24–27

2012 Understanding of criteria and rules for Water Framework Directive (WFD) implementation in coastal and transitional waters: experiences of EU countries/Greece approach, workshop/training, TÜBİTAK, MAM, May 26

2012 Perspectives on Marine Strategy Framework directive, workshop/training, TÜBİTAK, May 27

2012 Determination and Classification of Marine and Coastal Water Quality - North Aegean and Marmara Sea Workshop, TÜBİTAK, MAM, Gebze, Turkey June 19–20

2012 FP7 Information Day, Climate-related ocean processes and combined impacts of multiple stressors on the marine environment, Brussels, Belgium June 11

2010 Atlantic Estuarine Research Society (AERS). Nutrient Solutions: Science-based management of estuarine and coastal systems. Atlantic City, New Jersey, USA. March 4–6

2006 New Jersey Coastal Assessment/Benthic Index Workshop, New Jersey Coastal Assessment Project, Rutgers University, Institute of Marine and Coastal Sciences, New Jersey, USA November 1–2

2006 Teaching Evolution at Rutgers University- Symposium and Workshop, Rutgers University, New Jersey, USA February 8

2006 Hudson Canyon Workshop for proposal to Ocean Exploration (NOAA/OE) for exploration of the Hudson Canyon region off New York-New Jersey, Woods Hole Oceanographic Institution (WHOI), Woods Hole, Massachusetts, USA June 15–16



- 2003 Ocean Biogeographic Information System (OBIS) technical working group meeting and international committee meeting, Institute for Marine and Coastal Sciences, Rutgers University, New Jersey, USA (Student scribe) March 5–7
- 2002 U.S. Commission on Ocean Policy New Jersey Site Visit. Submitted a report of meeting details to the Commission. Official Contact: D. Titley, USN Special Assistant to the Chairman, New Jersey, USA July 21–2
- 2001 International Committee Meeting to plan for U.S. Ocean Biogeographic Information System (OBIS), Institute for Marine and Coastal Sciences, Rutgers University, NJ, USA August 29–30
- 1998 Mares, Marine Institute of Newfoundland. Chief Scientist P. Ramey, Benthic box cores, Placentia Bay, Newfoundland Canada (several day cruises)
- 1998 Teleost, Canadian Coast Guard Ship. Chief Scientist G. Rose, benthic box cores, 3PS (fishing zone off Newfoundland), Canada (10 day cruise in July)
- 1998 Mares, Marine Institute of Newfoundland. Chief Scientist P. Ramey, Benthic box cores, Placentia Bay, Newfoundland Canada (several day cruises)
- 1998 Teleost, Canadian Coast Guard Ship. Chief Scientist G. Rose, benthic box cores, 3PS (fishing zone off Newfoundland), Canada (10 day cruise in July)

## **TEACHING**

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### Courses

- 2019 Independent study: Marine Benthic Ecology  
 2016–2019 Introduction to Ecology

### **Teaching Assistant**

- 2010 Invertebrate Taxonomy  
 2003–05 Invertebrate Taxonomy  
 2002 Behavioral Biology  
 2001 General Biology Lab  
 2000 Introductory Biology  
 2000 Ecology of Open Waters: Plankton Biology  
 1999 Benthic Biology  
 1998–99 Biology of Invertebrates  
 1996–97 Arthropod Biology  
 1995–96 Invertebrate Zoology and Aquatic Ecology  
 1994–95 Introductory Ecology

### **Mentoring Student Research**

#### **Advised undergraduate students in independent research projects**

- 2009–10 (3 terms), Yirong Chen, undergraduate research experience (4 credits), Rutgers University, “Growth of the commercially important surfclam, *Spisula solidissima* in relation to temperature, food concentration and habitat”. Acting as Y. Chen’s advisor she received an Aresty Research Grant (\$800), and presented a poster at the 39th Annual Benthic Ecology Meeting (BEM), March 10–13, 2010, Wilmington, North Carolina, and at the Spring Undergraduate Research Symposium, Rutgers, Apr. 23, 2010.
- 2009–10 (Sep–Apr), Ashley Wenke, undergraduate Research Assistant (\$1000 stipend), Rutgers University, “Does shell- hash covering sandy sediments on the continental shelf provide a refuge from predators for newly settled, juvenile surfclams (*Spisula solidissima*)? Presented poster at Spring Undergraduate Research Symposium, Rutgers, Apr. 23, 2010.

- 2009 (Sep-Dec), Anthony Vastano, undergraduate Research Assistant (\$500 stipend) awarded through the Aresty Research Center (ARC), Rutgers University, “Does distance information improve exploratory efficiency in fiddler crabs?”.
- 2009 (Jun-Aug), Julia Goss, NSF (National Science Foundation)/REU, Rhodes College Tennessee USA, first place poster award “Recruitment and mortality of *Spisula solidissima*: field and flume experiments. Presented poster at the Ocean Sciences AGU conference in Portland, Oregon, Feb. 22–26 2010.
- 2009 (Jun-Aug), Perrine Ruamps, international research internship (for credit), Master’s student, AgroSupDijon, France, “An experimental model to assess the exploratory activity and efficiency in invasive versus native species of marine crabs”.
- 2008 (Jun-Aug), Andrea Zasoski, NSF/REU, Cedar Crest College, Pennsylvania USA, “*Carcinus maenas*: An optimal forager?”
- 2008 (Jun-Aug), Maddie Schroth-Miller, NSF/REU, California Polytechnic State University USA, first place poster award “Long-term variability in surfclam recruitment in relation to climate and local physical factors”. Presented poster at the American Geophysical Union (AGU), San Francisco, California Dec. 8.
- 2006 (May-Aug), Erica Bodnar, NSF/REU, Wittenberg University, Ohio USA, first place poster award “*Polygordius*, an ambitious marine worm”. Presented poster at the American Society of Limnology and Oceanography (ASLO) in Santa Fe, New Mexico, Feb. 7.
- 2005 (May-Aug), Chris Ballew, NSF/REU, “*Polygordius* sp. nov. what this marine worm and other macrofauna can tell you about where to live and when to move”.
- 2003 (Jun-Aug), Joel Berley, undergraduate research intern (for credit). Oral presentation “The influence of temperature on bioturbation of benthic macrofauna” and publication: Berley, J. 2005. “Bioturbation”, *A Posteriori*: Rutgers Undergraduate Research Journal:22–28

#### **Student Supervision** (WS=work study; V=volunteer)

- 2019 Betül Karanfil (WS), Ilgin Kişioğlu (WS), Asli Kilic (V), Büşra Uçan (V), Onur Serin (V)
- 2018–19 Ece Altun (WS), Gizem Keskin (WS), Selin Turan (WS)
- 2018 Eylül Hasancebi (WS), Beyza Beyhan (WS)
- 2018 Kaede Kimura, exchange student (Japan)
- 2017–18 Cansu Ertan (WS), Ceyda Ozler, (WS)
- 2017–19 Beyza Cimen (WS)
- 2017 Utku Ergun (WS), Mustafa Sinanoglu (WS)
- 2017 Mine Caner, Gebze Technical University Turkey, undergraduate research experience
- 2016–17 Cemre Agaoglu (WS)
- 2016 Selin Tanrikulu, (WS)
- 2009 Thirumalai Venkatesan, undergraduate (SEBS General Honors program) Rutgers University, undergraduate research experience
- 2008 Justin Oleksiak, Rutgers University, undergraduate research experience
- 2008 Elizabeth Teichman, Rutgers University, undergraduate research experience
- 2005–07 Tiara Johnson, Rutgers University, work study student
- 2005–06 Kate Douglas, Rutgers University, work study student

#### **TRAINING & SPECIALIZED SKILLS**

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- 2012 1<sup>st</sup> Training School for the promotion and application of EU Marine Environmental Policy Frameworks in non-EU Mediterranean and Black Sea countries, Organized by GSRT (General Secretariat for Research and Technology, Athens, Greece) and HCMR (Hellenic Centre for Marine Research Chios Island, Greece). Chios Island, Greece June 4–8

- 2010 Development and application of molecular techniques/training in the Laboratories of Dr. G. Purschke and Dr. T. Struck, Department of Zoology and Developmental Biology, Osnabrück University, Germany, Nov. 1–30
- 2009 New Jersey Coastal Benthic Index Development Workshop, New Jersey Coastal Assessment Project, Rutgers University, Institute of Marine and Coastal Sciences, NJ, USA April 14–15
- 2008 International workshop/training on molecular bar-coding of deep-sea organisms. Organized by the Census of Abyssal Marine Life “CeDAMar” in cooperation with the Marine Barcode of Life Initiative “MarBoL”. Hosted by German center for Marine Biodiversity Research and Senckenberg Research Institute, Wilhelmshaven, Germany May 13–18
- 2002 Polychaetes as biological and ecological models course: from taxonomy to applied research. University of Salento, Lecce, Italy September 9–22
- 1998 Zooplankton identification course, Huntsman Marine Science Center, New Brunswick, Canada April 27–May 1
- 1997 Tropical Marine Invertebrates, Bermuda Biological Station for Research, Bermuda June 1–28

### **VISITING RESEARCHER**

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- 2011 Collection and fixation of specimens for molecular analyses.  
 -Station de Biologique de Roscoff, France, Mar. 12–27  
 -Stazione Zoologica Anton Dohrn, Ischia, Italy, May 1–22  
 -Laboratoire ARAGO, Centre National de la Recherche Scientifique and University Pierre and Marie Curie, Banyuls, France, Jul. 1–17
- 2010 Collection and fixation of specimens for molecular analyses.  
 -Helgoland Biological Station, Alfred Wegener Institute for Polar and Marine Research (AWI), North Sea, Helgoland, Germany, Jul. 5–15  
 -Laboratoire ARAGO, Centre National de la Recherche Scientifique and University Pierre and Marie Curie, Banyuls, France, Oct. 11–22

### **GUEST LECTURES & PRESENTATIONS**

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- 2017 “*Promoting active learning and critical thinking*”. KOLT Teaching & Innovation Grant presentation, Koç University
- 2013 “*Reciprocal sediment-transplant field experiments in benthic ecology*”, KIYITEMA project meeting, TÜBİTAK, MAM, Gebze, January 3
- 2013 Co-taught Micro B3 training workshop in: *Multivariate analysis of marine microbial biodiversity*, Bremen University, Germany, June 17–21
- 2012 “*Development and implementation of benthic indices for WFD/MSFD-Turkey*”, Determination and Classification of Marine and Coastal Water Quality– North Aegean and Marmara Sea Workshop, TÜBİTAK, MAM, Gebze, June 19–20
- 2012 “*Univariate and multivariate analyses in community ecology*”, WP6 MicroB3 project meeting, Istanbul, Turkey, December 6–7
- 2009 “*Undergraduate research experience: how to get involved and research examples from two undergraduate summer projects*”, Rider University, New Jersey, USA
- 2009 “*Logistics of Completing a PhD dissertation*”, Seminar in Ecology, Rutgers University, USA

### **SERVICE & ACADEMIC CONTRIBUTIONS**

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- 2018 Attended **Board of Trustees and Overseers luncheon** (by invitation)
- 2018 Attended **Core Program Meeting** (revisions on content and the implementation of core program)
- 2016–2017 **Member of organizing committee** for 2017 Turkish-German Frontiers of Social Science

Symposium (TUGFOSS) “The Mediterranean (s) in the making: perceptions and realities”, Turkey, November 9–12, 2017

**Established the “Ecology Laboratory”** at Koç University

2015 **Grant Review/assessment** of internal research proposal, Qatar University

2014–2015 **Member of organizing committee** for 2015 Turkish-German Frontiers of Social Science Symposium (TUGFOSS) “Changing climate – changing lives”, Turkey, November 26–29

2013–2014 **EU Project Officer**, TÜBİTAK

2014 **Member of national organizing committee** for the Integrated Coastal Zone Management (ICZM) Meeting/Conference, Antalya, Turkey, October 14–17

2013 **Organized/hosted seminar speaker** (Dr. Torsten Struck, Zoological Research Museum Alexander Koenig, Bonn Germany), TÜBİTAK, Environment and Cleaner Production Institute, Gebze, Turkey, May 16

2012 **Organized/hosted seminar speaker** (Dr. Nicole Raineault, University of Rhode Island) TÜBİTAK, Environment and Cleaner Production Institute, Gebze, Turkey, September 10

2009 **Hosted speaker** (Dr. A. Marsh, University of Delaware), IMCS fall seminar series, Dec. 7.

2009 **Guided tours of IMCS flume facility** for prospective students, parents, and governmental representatives

2009 **Participated in job shadow** for a local high school student (Edison NJ).

2001–2010 **PI** for Benthic Ecology Laboratory, Rutgers University

2007 **Organized/hosted** seminar speaker (Dr. Jeffrey Levinton, SUNY Stony Brook) for the Ecology and Evolution graduate program seminar series, Rutgers. March 1

2007 **Organized/hosted** a special seminar speaker (Dr. Richard Zimmer, University of California Los Angeles) for the Ecology and Evolution graduate program, April 10

2005–06 **Organizer and moderator** monthly discussion group covering current topics such as biodiversity and climate change, Institute of Marine and Coastal Sciences, Rutgers University, New Jersey. Nov-May

2001–08 **Member**, Graduate Student Association, Rutgers University, New Jersey USA

## **AWARDS & HONORS**

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2018 A course I teach “Introduction to Ecology” was among the outstanding teaching performances honored for Spring 2018

2016–2017 Named "Associate Editor of Distinction" for journal "Estuaries and Coasts"

2008 Molecular barcoding workshop attendance and travel award, Census of Abyssal Marine Life (CeDAMar), in cooperation with the Marine Barcode of Life Initiative (MarBoL)

2007 AAAS, The American Association for the Advancement of Science award

2006/2004/2001 Conference travel award Graduate School New Brunswick, Rutgers

2006–2003 Graduate student research grants, Institute of Marine and Coastal Sciences, Rutgers

2002 Pre-dissertation award for course “Polychaetes as biological and ecological models: from taxonomy to applied research”, University of Salento, Lecce, Italy.

1998–00 Graduate Fellowship Memorial University and/or Fisheries Conservation Chair Fellowship, Fisheries and Marine Institute, Newfoundland, Canada

1997 Bermuda Biological Station for Research (BBSR), Scholarship for Canadian Nationals, to cover travel and course fees for “Tropical Marine Invertebrates” Bermuda.

1997 The Murdock C. Smith Scholarship in Marine Biology

## **TECHNICAL SKILLS**

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Design and implementation of field/laboratory sampling programs and experiments; taxonomic identification of benthic macroinvertebrates especially polychaetes, benthic index development; used a variety of benthic sampling techniques onboard research vessels (benthic grabs, box cores, tucker trawl,

plankton tows, CTD, Niskin bottle); sediment analysis (grain size, CHN composition, proteins); preparation/examination of specimens for light/scanning electron microscopy (SEM), and molecular studies; species identification using taxonomic keys; molecular laboratory techniques pertaining to DNA sequencing/barcoding (DNA extraction, PCR, gel extraction); and software packages for multivariate and standard parametric/non parametric statistics, molecular analysis, and general word processing (i.e., SPSS, sigma stat, PRIMER, COMPACH, MUSCLE, RaXML, treeview; Sequence Mann, Mega; Excel, Word, Photoshop).

## **RESEARCH CRUISES**

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- 2018–Dalgiclik, Kilic. Chief Scientist P. Ramey-Balci, diver-collected sediment cores and deployment/recovery of experimental colonization trays, Bosphorus Straight, Turkey (several day cruises spring/summer)
- 2012 E/V *Nautilus* expedition to Anaximander Mountains, Turkish Partner, remote cruise participant through telepresence technology. Chief Scientist: onboard vessel–N. Raineault; remotely– T. Shank, ROV collected sediment corers, Mud Volcanoes, Anaximander Mountains, Mediterranean Sea
- 2000–09 R/V *Arabella*, Institute of Marine and Coastal Sciences. Chief Scientist P. Ramey, Benthic grabs and diver-collected sediment cores, LEO-15 off New Jersey, USA (several day cruises)