Curriculum Vitae

Cecilia M. Gonzalez-McHugh

Work Addresses:

Queens College C.U.N.Y.
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School of Earth and Env. Sciences
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Lamont-Doherty Earth Obs.
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Education:

1993 - Ph. D: Marine Geology and Geophysics, Columbia University, *Cum Laude*
1987 - B. A.: Earth Science/Geology, Western Connecticut State University, Danbury, *Summa Cum Laude*

Occupations:

Queens College	2002-Present	Professor	Earth and Env. Sciences
Queens College	1998-2002	Associate Professor	Earth and Env. Sciences
Queens College	1993-1998	Assistant Professor	Earth and Env. Sciences

Assistant Dean – Division of Math and Natural Sciences – Queens College 2003-2011
Doctoral Faculty of The Graduate School and University Center's Ph.D. Program in Earth and Environmental Sciences - C.U.N.Y. 1993 – Present.
Adjunct Senior Researcher - Lamont-Doherty Earth Observatory of Columbia University

Awards and Honor Society:

2002: Western Connecticut State University Centennial Award for Academic Excellence
1998: Undergraduate Faculty Mentoring Research Award - Queens College, C.U.N.Y.
1997: Presidential Research Award - Queens College, C.U.N.Y.
1994: Sigma Xi
1993: "Cum Laude" Columbia University
1990 - 1993 Graduate Research Assistant, Lamont-Doherty Geological Observatory and Department of Geological Sciences of Columbia University.
1990: Marine Geology and Geophysics Travel Award, Lamont-Doherty Geological Observatory and Department of Geological Sciences of Columbia University:
1987-1990: Graduate Research Assistant, Lamont-Doherty Geological Observatory and Department of Geological Sciences of Columbia University.
1987: Outstanding Accomplishments in Geological Sciences, The Danbury Mineralogical Society, Danbury, Connecticut.
1987: "Summa Cum Laude" Western Conn. State University

Professional Affiliations:

1985 - Present: Geological Society of America
1989 - Present: American Geophysical Union
1993 -2005: Society Economic Paleontologists and Mineralogists
1985 -2003: American Association of Petroleum Geologists

Research Expeditions:

August-September 2015. *R/V Joides Resolution* IODP. Expeditin 356. Indonesian Throughflow. Sedimentologist

August –September 2013, *R/V Natsushima.* The Survey and Observation for Earthquakes and Tsunamis off the Pacific Coast of Tohoku". Sedimentologist

June 2013, *R/V Pritchard.* Long Island Sound Mapping. In charge of sediment grab program- Co-Chief

June 2013, *R/V Seawolf.* Long Island Sound Mapping - In charge of sediment grab program- Co-Chief

May 2013, *R/V SeaVee.* Survey of Lake Enriquillo, Dominican Republic to assess activity along the Enriquillo-Plantain Garden Transform Boundary. Co-Chief

March 2013, *R/V Pritchard.* NSF RAPID response to evaluate the impact of super storm SANDY

January- February 2013, *R/V Natsushima.* "The Survey and Observation for Earthquakes and Tsunamis off the Pacific Coast of Tohoku". Sedimentologist.

February 23-March 15, 2010, *R/V Endeavor*. NSF RAPID: Collaborative Research: Off-shore coseismic effects of the Port au Prince earthquake, Haiti. Chief Scientist

November 4 - 2009 - January 4, 2010, *R/V Joides Resolution*. Leg 317 - Canterbury Basin, New Zealand: Sea-level, climate and tectonics. Sedimentologist

July 2006, *R/V Hugh Sharp*. Partnership to Enhance Diversity in Marine Geosciences: Holocene Climate and Anthropogenic Changes from Long Island Sound, NY. Co-Chief

August 2005, *R/V Mediterranean Explorer*. Latest Pleistocene and Holocene paleoceanography of the Marmara Sea and Black Sea. Sedimentologist.

September 2002 *R/V Robert Hayes*. Developing High-Resolution Climate Records for the Hudson River Region Using an Integrated Approach. Co-Chief.

May 2002 *R/V Endeavor*. New Tools Applied to Classic Problem: Towards an Understanding of What Shapes the Stratigraphic Record at Passive Margins. Co-Chief

May 2001, *R/V Urania*. Tectonics of the North Anatolia fault beneath the Marmara Sea. Coring, geophysics, and R.O.V. dives. Co-Chief.

June 1999. *R/V Marion Dufresne*. STRATAFORM/ODP Sampling of Quaternary sediment with CALYPSO coring equipment. Co-Chief.

May 1999. *R/V Walford*. Hudson River Estuary Benthic Mapping: Sediment Sampling. Co-Chief.

November 1998. *R/V Onrust*. Hudson River Benthic Mapping: Sediment Sampling. Co-Chief.

August 1998. *R/V Walford*. Sediment sampling of Sandy Hook Bay, New Jersey to assess toxic waste dumping on the submarine environment. Co-Chief.

July -September, 1997. *R/V Walford*. Sediment sampling of the New York Bight and Hudson River Estuary to assess toxic waste dumping on the submarine environment. Co-Chief.

June - July 1997, *R/V Joides Resolution*. Ocean Drilling Program (ODP), Leg 174A: Studies of the New Jersey Shelf. Sedimentologist.

May - July 1993, *R/V Joides Resolution*. Ocean Drilling Program (ODP), Leg 150: New Jersey sea-level/Mid-Atlantic Transect. Sedimentologist.

May, 1993, *R/V Point Lobos*: Groundtruthing of side-looking sonar data of Monterey Canyon and San Gregorio fault, off-shore Monterey, CA, with Remote Operated Vehicle ROV. Co-Chief

September 1990, *R/V Point Sur*: A multi-frequency side-looking sonar study of the Monterey Canyon and Fan, off-shore Monterey, California, U.S.A.

December, 1989, *R/V Atlantis II*: A study of the age and origin of erosional features on the U.S. continental slope off-shore New Jersey determined from Alvin dives, piston cores, and SeaBeam bathymetry.

August, 1989, *R/V Atlantis II*: Ground-truth side-looking sonar data (SeaMARC I and GLORIA) and stratigraphic studies of the of the U.S. continental slope off-shore New Jersey determined from Alvin dives, piston cores, and physical properties measurements. SeaBeam bathymetric survey George's Banks, U.S. slope.

October 1988, *R/V Atlantis II*: Alvin dives and photographic survey to study stratigraphy and sedimentary processes in the Monterey Canyon and Fan off-shore Monterey, California.

PUBLICATIONS

a. Peer Reviewed Journals

McHugh, C.M.G., Fulthorpe, C., Hoyanagi, K., Blum, P., Mountain, G. (submitted). Pleistocene seismic sequences may result from eustatic change but can they be used for global correlations? New Insights from the Canterbury Basin, New Zealand. Geochemistry, Geophysics, Geosystems #2014GC005597.

Wright, V. D., Hornbach, M. J., McHugh, C., Mann, P. 2015. Factors contributing to the 2005-Present, rapid rise in lake levels , Dominican Republic and Haiti (Hispaniola) Natural Resources Vol 6, No. 8. DOI:10.4236/nr.2015.68045

McHugh, C.M., L. Seeber, M.-H. Cormier, M. Hornbach, 2014b. Submarine Paleoseismology along Populated Transform Boundaries: The Enriquillo-Plantain-Garden Fault, Canal du Sud, Haiti, and the North Anatolian Fault, Marmara Sea, Turkey. Oceanography Special Issue on Submarine Natural Hazards. *Oceanography* 27(2):118-131.

McHugh, C.M.G., Braudy, N., Cagatay, M. N., Sorlien, C., Cormier, M.-H., Seeber, L., Henry, P., 2014a. Seafloor ruptures along the North Anatolia Fault in the Marmara Sea, Turkey: Link with the adjacent basin turbidite record. *Marine Geology* 353:65-83.

Shillington, D.J., Seeber, L., Sorlien, C.C., Steckler, M.S., Kurt, H., Dondurur, D., Cifici, G., Cormier, M.-H., McHugh, C.M.G., Gurcay, S., Poyraz, D., Okay, S., Atgin, O., Diebold, J. B., 2012. Evidence for widespread creep on the flanks of the Sea of Marmara Transform basin from marine geophysical data. *Geology* 40, p 439-442.

McHugh, C.M., Seeber, L., Çağatay, N., Henry, P., Sorlien, C., Steckler, M., Uçarkuş, G., 2012. Tectonic Hazards along Continental Transform Boundaries "An Integrated Ocean Drilling Program Marmara-Trans Workshop on Continental Transform Boundaries: Tectonic Evolution and Geohazards . *Integrated Ocean Drilling Program Scientific Drilling Journal No. 13* Pages 60-64.

McHugh, C.M., Seeber, L., 2011. Studying tectonic hazards along continental transform boundaries. *EOS Transactions American Geophysical Union*, V. 92, No. 48, p. 444.

McHugh, C., Seeber, L., Braudy, N., Cormier, M.-H., Davis, M., Dieudonne, N., Deming, J., Diebold, J., Douilly, R., Gulick, S., Hornbach, M., Johnson, H., Mishkin, K., Sorlien, C.,

Steckler, M., Symithe, S., Templeton, J., 2011. Offshore sedimentary effects of the 12 January Haiti earthquake. *Geology 39, 8, 723-726. doi:10.1130/G31815.1*

McHugh, C., Gulick, S., Cormier, M.-H., Braudy, N. , Davis, M., De Bow, S., Dieudonne, N., Deming, J., Diebold, J., Douilly, R., Hornbach, M., Johnson, H., Mishkin, K., Seeber, L., Sorlien, C., Steckler, M., Symithe, S., Templeton, J., Wilson, R., 2010. Project REPONS: Offshore fault mapping and turbidite record reconnaissance in response to the January 12 2010 earthquake, Haiti. 2010. *Seismological Research Letters Volume 81, No 3.*

Hornbach, M.J., N. Braudy, R.W. Briggs, M.H. Cormier, M.B. Davis, J.B. Diebold, N. Dieudonné, R. Douilly, C. Frohlich, S.P.S. Gulick, H.E. Johnson, P. Mann, C.M.G. McHugh, K. Mishkin, C.S. Prentice, L. Seeber, C.C. Sorlien, M.S. Steckler. S.J. Symithe, F.W. Taylor, J. Templeton, 2010. High tsunami frequency as a result of combined strike-slip faulting and coastal landslides, *Nature Geoscience*, *3*, 783-788.

Sorichetta A., Seeber L., Tamarelli A., McHugh, C. M. G., Cormier M.-H., 2010. Geomorphic evidence for tilting at a continental transform: The Karamursel Basin along the North Anatolian Fault (NAF), Turkey. *Geomorphology* 119, 221-231. Doi:100.1016/j.geomorph.2010.03.035

McHugh, C.M., Hartin, C., Mountain, G.S., Gould, H., 2010. The role of glacio-eustasy in sequence formation: Mid-Atlantic Continental Margin, USA. *Marine Geology* 277, p. 33-47. *doi:10.1016/j.margeo.2010.08.009*

McHugh, C.M., Gurung, D., Giosan, L., Ryan, W.B.F., Mart, Y., Sancar, U., Burckle, L., Cagatay, M.N. 2008. The last reconnection of the Marmara Sea, Turkey to the World Ocean: A paleoceanographic and paleoclimatic perspective. *Marine Geology doi:10.1016/j.margeo.2008.07.005*

McHugh, C.M.G., Seeber, L., Cormier, M.-H., Dutton, J., Cagatay, N., Polonia, A., Ryan, W. B. F., and Gorur, N. 2006. Submarine earthquake geology along the North Anatolia Fault in the Marmara Sea, Turkey: A model for transform basin sedimentation. *Earth and Planetary Sciences* 248, 661-684. doi:10.1016/j.epsl.2006.05.038

Cormier, M.-H., L. Seeber, C.M.G. McHugh, A. Polonia, M.N. Çagatay, O. Emre, L. Gasperini, N. Gorur, G. Bortolouzzi, E. Bonatti, W.B.F. Ryan, and K. Newman, The North Anatolian fault in the Gulf of Izmit (Turkey): Rapid vertical motion in response to minor bends of a non-vertical continental transform, *Journal of Geophysical Res.*, doi:1029/2005JB003633, 2006.

Seeber, L., M.-H. Cormier, C. McHugh, Ö. Emre, A. Polonia, , C. Sorlien, 2006. Rapid subsidence and sedimentation from oblique slip near a bend on the North Anatolian transform fault in the Marmara Sea, Turkey. *Geology* 34(11), p. 933-936.

L. Seeber, O. Emre, M. Cormier, C. Sorlien, C. McHugh, A. Polonia, N. Ozer, and N. Cagatay, 2004. Uplift and Subsidence from Oblique Slip: The Ganos-Marmara Bend of the North

Polonia, A., Gasperini, L., Amorosi, A., Bonatti, E., Cagatay, N., Capotondi, L., Cormier, M.-H., Gorur, N., McHugh, C., Seeber, L., 2004. Holocene slip rate of the North Anatolian Fault beneath the Sea of Marmara. *Earth and Planetary Science Letters v. 227:411-426.*

McHugh, C.M.G., Pekar, S., Christie-Blick, N., Ryan, W.B.F., Carbotte, S., Bell, R., 2004, Spatial variations in a condensed interval between estuarine and open marine settings: Holocene Hudson River Estuary and adjacent continental shelf. *Geology* 32 (2), 169-172.

Pekar, S. F., McHugh, C.M.G., Christie-Blick, N., Lynch-Stieglitz, J., Carbotte, S., and Bell, R. E., 2004. Estuarine processes and their stratigraphic record: paleosalinity and sedimentation changes in the Hudson Estuary: Marine Geology, v. 209.

M. N. Cagatay, N. Gorur, A. Polonia, E. Demirbag, M. Sakinc, M.-H. Cormier, L. Capotondi, C. McHugh, O. Emre, K. Eris, 2003. Sea-level changes and depositional environments in the Izmit Gulf, eastern Marmara Sea, during the late glacial-Holocene period. *Marine Geology* 202, p. 159-173.

McHugh, C.M.G., and Olson, H.C., 2002. Pleistocene chronology of continental margin sedimentation: New insights into traditional models, New Jersey. *Marine Geology* 185:389-411.

McHugh, C. M. G., Damuth, J. E, and Mountain, G. S. 2002. Cenozoic mass-transport facies and their correlation with relative sea-level change, New Jersey continental margin. *Marine Geology* 184:295-334.

Ladd, J., Bell, R.E., Bokuniewicz, H., Carbotte, S., Cerrato, R.M., Chillrud, S., Ferrini, B.L., Flood, R.D., Maher, N.P., McHugh, C.M.G., Nitsche, F.O., Ryan, W.B.F., Strayer, D.L., Thiessen, J.A., Vesteeg, R., 2002. Mapping the Hudson Estuary's Submerged Lands. Clearwaters, v. 32, No. 1, p. 5-9.

McHugh, C.M.G. and Ryan, W.B.F., 2000. Sedimentary features associated with channel overbank flow: examples from the Monterey Fan. *Marine Geology* 163:199-215.

McHugh, C. M. G., Snyder, S. W., and Miller, K. G., 1998. Upper Eocene ejecta of the New Jersey continental margin reveal dynamics of Chesapeake Bay. *Earth and Planetary Sci*ence Letters v.160, 3-4, p 353-367.

Orange, D. L., Greene, H. G., Reed, D., Martin, J., McHugh, C. M. G., Ryan, W. B. F., Barry, J., 1998. Active and dormant mud volcanism in Monterey Bay, California I: ROV Observations. *Geological Society of America Bulletin* v.111, No. 7, p. 992-1009.

McHugh, C. M. G., Ryan, W. B. F., Eittreim, S., Reed, D., 1998. Influence of the San Gregorio fault zone on the morphology of Monterey Canyon system off-shore Monterey Bay, California. *Marine Geology* 146:63-91.

Glass, B. P., Koeberl, C., Blum, J. D., McHugh, C. M. G., 1998. Upper Eocene tektite and impact ejecta layer on the continental slope off New Jersey. *Meteoritics & Planetary Science* 33:229-241.

McHugh, C. M. G., 1997, Effects of sea-level changes on the diagenesis of Eocene sediment: New Jersey slope and coastal plain, In: Miller, K. G., Snyder, S. W., (Eds.): Proceedings of the Ocean Drilling Program, Scientific Results, 150X: College Station, TX (ODP) 25-48.

McHugh, C. M. G., Damuth, J. E., Gartner, S., Katz, M. E., and Mountain, G. S., 1996, Oligocene to Recent mass-transport deposits of the New Jersey continental margin and their correlation to sequence boundaries, In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): Proceedings of the Ocean Drilling Program, Scientific Results, 150: College Station, TX (ODP), 189-228.

McHugh, C. M. G., Snyder, S. W., Deconinck, J. F., Saito, Y., Aubry, M. P., and Katz, M. E., 1996, Upper Eocene tektites of the New Jersey continental margin: ODP, Site 904, In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): Proceedings of the Ocean Drilling Program, Scientific Results, 150: College Station, TX (ODP), 241-269.

Mountain, G., Damuth, J., McHugh, C., Lorenzo, J., and Fulthorpe, 1996, Origin, re-Burial and significance of a mid-Miocene Canyon, New Jersey Continental Slope. In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): Proceedings of the Ocean Drilling Program, Scientific Results, 150: College Station, TX (Ocean Drilling Program), 283-293.

O'Connell, S., McHugh, C. M., and Ryan, W. B. F., 1994, Unique fan morphology in an entrenched thalweg channel on the Rhone Fan, In Pickering, K. T., Hiscott, R. N., Kenyon,

N. H., Ricci Lucchi, F., and Smith, R. D. A., eds, Atlas of Deep Water Environments, Chapman & Hall. p 80-83.

McHugh, C. M., Ryan, W. B. F., Schreiber. B. C., 1993. The role of diagenesis in exfoliation of submarine canyons, *American Association of Petroleum Geologists Bull*etin v.77, no. 2, p.145-172.

McHugh, C. M., Ryan, W. B. F., Hecker, B., 1992. Contemporary sedimentary processes in the Monterey Canyon fan system, *Marine Geology* 107:35-50.

Ryan, W. B. F., Haxby, W., Pratson, L., McHugh, C. M., 1991, Intercomparison of co-registered Seabeam bathymetry, Hydrosweep bathymetry, SeaMarc I imagery and submersible observations on the continental slope of the eastern U.S., *IEEE Journal of Oceanic Engineering*, v. 3, p. 1159-1164.

b. Book Chapters:

Ryan, W. B. F., Vachtman, D., McHugh, C., Cagatay, N., Mart, Y., 2014. A channeled shelf fan initiated by flooding of The Black Sea. *In "The Mediterranean Sea: Its History and Present Challenges". Chapter 3. Editors Stefano Goffredo and Zvy Dubnisky.*

Expedition 317 Scientific Party. Integrated Ocean Drilling Program Expedition 317 Preliminary Report. Canterbury Basin Sea Level. Global and local controls on continental margin stratigraphy. 4 November 2009 – 4 January 2010. Publisher: Integrated Ocean Drilling Program Management International, Inc. for the Integrated Ocean Drilling Program. 136 pp.

Mountain, G.S., Burger, R.L., Delius, H., Fulthorpe, C.S., Austin, J.A., Goldberg, D.S., Steckler, M.S., McHugh, C.M., Miller, K.G., Monteverde, D.H., Orange, D.L. and Pratson, L.F., 2007. The long-term stratigraphic record on continental margins. In Nittrouer, C.A., Austin, J.A., Field, M.E., Kravitz, J.H., Syvitski, J.P.M., and Wiberg, P.L. (Editors). Continental Margin Sedimentation. Special Publication #37 of the International Association of Sedimentologists. Blackwell Publishing. Pg. 381-449.

Bell, R.E., Flood, R.D., Carbotte, S., Ryan, W.B.F., McHugh, C., Cormier, M., Versteeg, R., Bokuniewicz, H., Ferrini, V.L., Thissen, J., Ladd, J.W., and Blair, E., 2006. Benthic Habitat Mapping in the Hudson River Estuary, pp 51-65. In The Hudson River Estuary: Editors: J.S. Leviton and J.R. Waldman. Cambridge University Press.

Austin, J.R. Jr., Christie-Blick, N., Malone, M, et al., Berne, S., Borre, M.K., Claypool, G., Damuth, J., Delius, H., Dickens, G., Flemings, P., Fulthorpe, C., Hesselbo, S., Hoyanagi, K., Katz, M., Drawinkel, H., Major, C., McCarthy, F., McHugh, C., Mountain, G., Oda, H., Olson, H., Pirmez, C., Svarda, C., Smart, C., Sohl, L., Vanderaveroet, P., Wei, W., and Whiting, B., 1998. Proceedings of the Ocean Drilling Program, Initial Reports 174A. College Station, TX (Ocean Drilling Program). 324 pp.

Mountain, G.S., Miller, K.G., Blum, P., Per-Gunnar, A., Aubry, M.-P, Burckle, L., Christensen, B. A., Compton, J., Damuth, J., Deconinck, J.-F., de Verteuil, L., Fulthorpe, C. S., Gartner, S., Guerin, G., Hesselbo, S.P., Hoppie, B., Katz, M.E., Kotake, N., Lorenzo, J.M., McCracken, S., McHugh, C. M., Quayle, W.C., Saito, Y., Snyder, S.W., ten Kate, W.G., Urbat, M., Van Fossen, M., Vecsei, A., 1993. Proceedings of the Ocean Drilling Program, Initial Reports 150. Eds., Mountain, G.S., Miller, K.G., Blum, P., Poag, C.W., Twichell, D.C. College Station, TX (Ocean Drilling Program). 885pp.

COLLABORATORS – ADVISOR

Collaborators: Roger Flood (SUNY at Stony Brook), Gregory Mountain (Rutgers Univ), Nicholas Christie-Blick (LDEO), Ken Miller (Rutgers), Hilary Olson (UTI, Austin), Jamie Austin (UTI, Austin), John Goff (UTI, Austin), Pierre Henry (CEREGE, Fr), Namik Cagatay (Istanbul Technical University), Robin Bell (LDEO), Suzanne Carbotte (LDEO), Timothy Kenna (LDEO), Michael Steckler (LDEO), Frank Nitsche (LDEO), Marie-Helene Cormier (URI), Leonardo Seeber (LDEO), Liviu Giosan (WHOI), Yossi Mart (Haifa University), Naci Gorur (Istanbul Technical University), Kadir Eris (Istanbul Technical Univeristy), Umuhan Sancar (Istanbul Technical University), Vachtman, D. (Ben-Gurion University), Lucilla Capotondi (CNR-ISMAR, Bologna), Enrico Bonnatti (CNR-ISMAR, Bologna), Luca Gasperini (CNR-ISMAR, Bologna), Alina Polonia (CNR-ISMAR, Bologna), Toshiya Fujiwara (JAMSTEC), Toshiya Kanamatsu (JAMSTEC), Ken Ikehara (AIST), Shuichi Kodaira (JAMSTEC).
Graduate Advisor: William B. F. Ryan, Lamont-Doherty Earth Observatory

STUDENTS MENTORED

a. Graduate Students:

Main advisor:
*2012 - 2014 – Pariskeh Hosseini (PhD) *Storms a major 21st Century coastal problem*
*2011- 2014 - Dhiman Mondal (PhD) *Earthquake hazards and growth of the fold and thrust belt in SE Bangladesh.*
2013-1014 –Amanda Bastas-Hernadez (MA) *Evolution of the Saint Martin anticline SE Bangladesh.*
2013-2014- Edwige Lauture (MA) *Hypoxia, a major problem in urban estuaries: Long Island Sound, NY, USA*
*2003 - 2014 – Damayanti Gurung (Ph.D.) *Late Pleistocene-Holocene climate change inferred from fossil fauna in the Marmara Sea, Turkey and the Hudson River Estuary, NY.* COMPLETED
*2005 - 2012– Elana Klein (Ph.D.) *Coastal Processes and Anthropogenic Impact: Raritan - Sandy Hook Bay, New Jersey.* COMPLETED
2006 - 2012– Adina Hakimian (MA) *Submarine Paleoseismology in the Ionian Sea, Mediterrranean.* COMPLETED
*2002 - 2008. George Lozefski. *Submarine Paleoseismology in the Gulf of Izmit, Turkey.* NOT COMPLETED
1999 - 2008- Robert Appelbaum (Ph.D.) *Eocene climate and sea-level derived from sediment and Formation Micro Scanner (FMS) data on the New Jersey Continental Margin.* COMPLETED. The City University of New York

*2004-*2007*. Alessandro Soricheta. Research Scholar. *Crustal unloading along a continental transform: flexural response to the North Anatolian Fault in Izmit Gulf, NW Turkey* COMPLETED

*2002-2004. Jessica Dutton. *Developing tools for Submarine Earthquake Geology in Turkey and Northern Venezuela.* COMPLETED. Queens College, The City University of New York.

1998-2000 Basil Skordas (MA) *The impact of toxic waste dumping on the submarine environment.* Queens College, The City University of New York.

*Related publications under Journals sections.

b. Committee Member:

2012-2014 – Christine Rhamadan (PhD). *Climate modeling*

2002 to 2008– Noureddin Amaach (Ph.D.) *Sediments and pollution in the New York Bight, NY*. COMPLETED. The City University of New York.

2000 to 2006- Farnosh Saadi (Ph.D.). *Dinoflagellate Stratigraphy and Facies of the Late Cretaceous – Early Tertiary (K/T boundary) interval at the Bass River Site, New Jersey, ODP 174X*. COMPLETED

2005 – 2007. Donald Clark (Ph.D.) COMPLETED The City University of New York

2001 to 2003- Peter Fleischer (Ph.D.). *Glaciological Roots of New York City's Regional Geography: A GIS Visualization*

2000-2002. JoAnn Thiessen (MA) Hudson River Estuary Benthic Mapping and Sediment Analyses. COMPLETED. SUNY Stony Brook.

1998 to 2000- Fatemeh Sayrafiezadeh (Ph.D.) Sediment contamination in the Lower Hudson Estuary. COMPLETED The City University of New York

1998 to 2007 - Paul Feinberg (Ph.D.) *Ecology of the Hudson River Estuary.* COMPLETED The City University of New York.

1997 to 2005 - Paula Gural (MA) *Tectonics and sedimentation of the Hudson Valley region.* COMPLETED. Queens College, The City University of New York

1998 – 1999 - Tarik Zarrouk (Ph.D.) *The chemical characteristics of the interstitital waters in sediments of Great South Bay.*

c. Undergraduate Students:

Main advisor:

1994. John Walsh. *Mass-wasting facies of the New Jersey Continental Margin.*

1995. Thomas Lyogis. *Upper Eocene tektites of the North American Strewn Field.*

1996. Carol Fitzgerald. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin*.

1996. Veronika Forero. *The role of mass-wasting on the evolution of the New Jersey Continental Margin. Sigma-Xi presentation at Queens College.*

*1997. Bettina Ben-Eliezer. *Isotope Calibration of Pleistocene Sequences, New Jersey Continental Margin. Sigma-Xi presentation at Queens College and was part of the abstract presented in San Antonio, TX. at an AAPG national meeting.*

1998. Joel Jackel. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin*. Sigma-Xi presentation at Queens College.

1998. Mary Ann Possini. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin.*

1998. Onika Shing. *Diatom distribution in the Hudson River Estuary.*

1998- Christin Garritano. *Hudson River Benthic Mapping and Sediment Sampling. Participated in the sampling field program of the Hudson River from the R/V Walford.*

1998, Taso Lamputis. *Hudson River Benthic Mapping and Sediment Sampling. Participated in the sampling field program of the Hudson River from the R/V Walford.*

*1999 – 2001, Gillian Pereira. *Late Holocene paleoclimate of the Hudson Valley revealed by the diatom assemblages.*

*2001-2003, George Losefzky *Paleoseismology in the Marmara Sea seismic gap.*

*2002-2006, Corinne Hartin. *Drainage systems associated with the latest Pleistocene-Holocene paleoshoreline on the New York – New Jersey Continental Margin*

*2002-2004, Helene Gould. *Evidence for the latest Pleistocene-Holocene shoreline along the New York-New Jersey Continental Margin*

*2002-2004, Sarah Brownlee. *Diatoms as proxies for climate change in the Hudson River, New York*

*2001-2002, Miriam Jones. *Decadal to Millennial Sedimentation Patterns of Hudson River Estuary.*

*2005-2009, Alexandrea Bowman. *Mercury concentrations in the Long Island Sound sediments.*

*2005-2009, Vadim Acosta. *Benthic foraminifers of Long Island Sound.*

*2007-2008, Jennifer Rios. *Benthic foraminifers of Long Island Sound.*

*2008-2010, Andrea Balbas. *Heavy metal concentrations in the sediments of Long Island Sound.*

2008 – 2012, Myrna Gattica. *Seismoturbidites of the Marmara Sea.*

*2008-2010, Nicole Braudy. *Seismoturbidites of the Marmara Sea.*

2008 – 2012, Carolyn Aquino *Seismoturbidites of the Canal du Sud. Haiti*

2012-2014, Elissa Olivera. Submarine paleoseismology in the Japan trench after the 2011 Tohoku earthquake.

2013-2014, Zahari Ernst. Submarine paleoseismology in the Japan trench after the 2011 Tohoku earthquake.

PROFESSIONAL SERVICE

1. Integrated Ocean Drilling Program Science Steering and Evaluation Panel - 9/1/09 – 8/31/12

2. Queens College Division of Mathematics and Natural Sciences, Undergraduate Research Conference. Main Coordinator. 2004-2011.

3. IODP Workshop in Istanbul Technical University, for preparation of a drilling proposal in Marmara Sea, 2011. Leader and main organizer together with P. Henry (France) and N. Cagatay (Turkey).

4. Society for the Advancement of Chicanos and Native Americans Annual Meeting 6. Community-Senior College Workshop 2007 Invited Panelist
5. State Univ. of N.Y. Maritime Academy 2007-2013 Science Advisory Comm.
6. American Assoc. of Petroleum Geologists 1996-1999 Chair Academic Liaison
7. NSF proposal reviewer
8. Journal reviewer