

Athina Peidou, PhD

Department 329C - Sea Level and Ice, 4800 Oak Grove Drive Pasadena, California, USA.

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Education:

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| 2020 | PhD , York University, Toronto, Canada
Earth and Space Science and Engineering |
| 2016 | MaSc , Queen's University, Kingston, Canada
Geological Sciences and Geological Engineering |
| 2014 | Dipl. Eng. , Aristotle University of Thessaloniki, Thessaloniki, Greece
Rural and Surveying Engineering (Specialization: Geodesy) |

Recent Research Employment:

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| July 2020-present | NASA's Jet Propulsion Laboratory/Caltech, Pasadena, USA
Postdoctoral Research Fellow |
| April 2020-June 2020 | Department of Earth and Space Science and Engineering, York University, Toronto, Canada
Research Associate |
| Sep 2016- March 2020 | Department of Earth and Space Science and Engineering, York University, Toronto, Canada
Research Assistant (PhD Candidate) |
| Sep 2014 - Aug 2016 | Department of Geological Sciences and Geological Engineering, Queen's University, Kingston, Canada
Research Assistant (MAsc) |

Recent Teaching Employment:

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| Sep 2016- April 2020 | York University, Toronto, Canada
Teaching Assistant
Guest Lecturer |
| Sep 2014- Aug 2016 | Queen's University, Kingston, Canada
Teaching Assistant |

Selected Awards and Fellowships:

2020	Canada's Governor General's Gold Medal
2019-2020	Queen Elizabeth II GS in Sciences and Technology
2019	International Association of Geodesy, Young Authors Award
2018, 2019	Canadian Geophysical Union, Best student paper- Geodesy Section
2016-2020	Onassis Foundation Scholarship
2016-2020	York University Graduate Fellowship Doctoral
2016	Lassonde Graduate Entrance Scholarship
2014-2015, 2015-2016	Teaching Assistant Award, Queen's University
2014-2016	Queen's Graduate Award
2014-2016	Queen's International Tuition Award
2014-2016	Carl Reinhardt Fellowship, Queen's University

Refereed Publications:

Peidou A and Pagiatakis S (2020b). Sub-Nyquist artefacts in GRACE geopotential models: Deconstruction and elimination. *Manuscript in preparation*.

Peidou A and Pagiatakis S (2020a). Stripe mystery in GRACE geopotential models revealed. *Geophysical Research Letters*, 47, e2019GL085497. doi: 10.1029/2019GL085497.

Peidou A and Pagiatakis S (2019). Gravity Gradiometry With GRACE Space Missions: New Opportunities for the Geosciences. *Journal of Geophysical Research: Solid Earth*, 124(8), pp.9130-9147. doi: 10.1029/2018JB016382.

Peidou AC, Fotopoulos G and Pagiatakis SD (2018). On the feasibility of using satellite gravity observations for detecting large scale solid mass transfers. *Journal of Geodesy*, pp.1-12. doi: 10.1007/s00190-017-1078-y.

Symposia:

Peidou AC and Vergos GS (2015). Wavelet mutli-resolution analysis of recent GOCE/GRACE GGMs. Proceedings of the IGFS2014 Meeting of the IGFS, International Association of Geodesy Symposia Vol. 145, Springer Berlin Heidelberg New York. doi: 10.1007/1345_2015_44.

Conference Contributions:

Peidou A and Pagiatakis S (2019). Understanding and Eliminating Stripe Artifacts on GRACE Mission Products. American Geophysical Union Fall Meeting, Section “Geodesy”, Session “Continuous Measurements of Earth System Mass Change: GRACE, GRACE-FO and Beyond”, December 2019, San Francisco, CA, USA.

Peidou A and Pagiatakis S (2019). On the elimination of stripes on GRACE geopotential models using Moiré interference fringes. IUGG General Assembly, Session G03 “Time-Variable Gravity Field”, July 8-18, Montreal, Canada.

Peidou A and Pagiatakis S (2019). Assessment of GRACE-GM gravitational gradients. IUGG General Assembly, Session JG02 “Theory and Methods of Potential Fields”, July 8-18, Montreal, Canada.

Peidou A and Pagiatakis S (2019). Gravitational gradients using GRACE: New opportunities for observing and understanding the Earth system. European Geophysical Union General Assembly, Session G4.1 “Satellite Gravimetry: Data Analysis, Results and Future Mission Concepts”, April 7 – 12 2019, Vienna, Austria.

Pagiatakis S and **Peidou A** (2019) Demystifying the origin of stripes in GRACE mission gravity field models. European Geophysical Union General Assembly, Session G4.1 “Satellite Gravimetry: Data Analysis, Results and Future Mission Concepts”, April 7 – 12 2019, Vienna, Austria.

Peidou A and Pagiatakis SD (2018). Gravity Gradiometry with GRACE Follow-On: Measuring Gravitational Gradients using a non-gradiometry mission. American Geophysical Union Fall Meeting, Section “Geodesy”, Session “GRACE, GRACE Follow-On, and Beyond”, December 2018, Washington D.C., USA.

Pagiatakis SD and **Peidou A** (2018). GRACE Follow-on in Gradiometry Mode: New Insights and Opportunities for Geosciences. American Geophysical Union Fall Meeting, Section “Geodesy”, Session “GRACE, GRACE Follow-On, and Beyond”, December 2018, Washington D.C., USA.

Peidou AC and Pagiatakis SD (2018b). GRACE in Differential Mode. Canadian Geophysical Union Annual Meeting, Section “Geodesy”, Session “Geodesy and Geodynamics”, June 2018, Niagara, Canada.

Peidou A and Pagiatakis S (2018a). How do space weather dynamics impact GRACE mission instrumentation?. European Geophysical Union General Assembly, Session G4.4 “Dynamics and interaction of processes in Earth and its space environment: perspectives from low-Earth orbiting satellites and beyond”, April 8 – 13 2018, Vienna , Austria.

Peidou AC and Fotopoulos G (2016b). Detecting large-scale landslide and earthquake mass transfer using the next generation of gravity missions: simulations and case studies. Gravity, Geoid and Height Systems International Symposium, Section “Geodesy”, Session “Current and future satellite gravity missions”, September 2016, Thessaloniki, Greece.

Peidou AC and Fotopoulos G (2016a). Can dedicated satellite gravity observations be used to detect subaerial and submarine landslides?. Canadian Geophysical Union Annual Meeting, Section “Geodesy”, Session “Geodesy and Geodynamics”, June 2016, New Brunswick, Canada.

Peidou A and Vergos GS (2014b). Wavelet multi-resolution analysis of recent GOCE/GRACE GGMs. International Gravity Field Service (IGFS) General Assembly, June 30-July 6 2014, Shanghai, China.

Peidou A and Vergos GS (2014a). GOCE GGM analysis through wavelet decomposition and reconstruction and validation with GPS/Leveling data. European Geophysical Union General Assembly, Session G4.2 “Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions”, April 27- May 2 2014, Vienna, Austria.