

Ioakeim Ampatzoglou – Curriculum Vitae

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Nationality Greek

Education

- 2015-now** Ph.D. Candidate in Mathematics, The University of Texas at Austin.
-Thesis Title: “*A rigorous derivation of a ternary Boltzmann equation for a classical system of particles*”.
-Thesis Advisor: Prof. Nataša Pavlović.
- 2009-2014** Diploma in Electrical and Computer Engineering, National Technical University of Athens.
-GPA-9.07/10 (Honors).
-Thesis Title: “*James and James Tree Spaces*”.
-Thesis Advisor: Prof. Spyridon Argyros.

Research interests

Kinetic equations, Evolutionary Nonlinear PDE, Derivation of nonlinear equations from particle systems, Transport phenomena, Mathematical Physics.

Awards-Distinctions

- Professional Development Award, The University of Texas at Austin (2019).
- The paper “*A rigorous derivation of a ternary Boltzmann equation for a classical system of particles*”, has received an Honorable Mention in the 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications (2018).
- Professional Development Award, The University of Texas at Austin (2018).
- Scholarship Recipient from the Hellenic Professional Society of Texas, Houston, TX (2018).
- Graduate School Summer Fellowship, The University of Texas at Austin (2017).
- Department of Mathematics Summer Fellowship, UT Austin (2016).
- Anne Crawford Presidential Scholarship, The University of Texas at Austin (2016).
- Onassis Foundation Fellow, Athens, Greece (2015).

Publications-Preprints

- [1] I. Ampatzoglou, N. Pavlović, M. Tascović “*On the Global Well-Posedness of the generalized Boltzmann equation for small initial data*”, in preparation.
- [2] Ampatzoglou, N. Pavlović, “*A rigorous derivation of a generalized Boltzmann equation for a dense gas of hard spheres*”, in preparation.
- [3] I. Ampatzoglou, N. Pavlović, “*A rigorous derivation of a ternary Boltzmann equation for a classical system of particles*”, Submitted for publication (2019). [arXiv](#)
- [4] I. Ampatzoglou, “*On the non-embedding of ℓ_1 in the James Tree Space*”, *Expositiones Mathematicae*, 10.1016/j.exmath.2018.12.002 (2018). [arXiv](#)

Talks in Conferences-Seminars

- Summer School *Trails in kinetic theory: foundational aspects and numerical methods*, Poster Session, Hausdorff Research Institute for Mathematics (HIM), Bonn, Germany (2019).
- *Ohio River Analysis Meeting (ORAM)*, The University of Cincinnati, OH, USA (2019).
- *Texas Analysis and Mathematical Physics Symposium (TexAMP)*, Baylor University, TX, USA (2018).
- *Geometric Analysis Seminar*, The University of Tennessee, Knoxville, TN, USA (2018).
- *The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Taipei, Taiwan (2018).
- *First Congress of Greek Mathematicians for the 100th anniversary of the Hellenic Mathematical Society*, Athens, Greece (2018).
- *Ph.D. Candidacy Talk*, The University of Texas at Austin, TX, USA (2018).
- *Undergraduate Thesis Presentation*, National Technical University of Athens (2015).

Additional conferences- summer schools attended

- Workshop *Effective equations: frontiers in classical and quantum systems*, Hausdorff Research Institute for Mathematics (HIM), Bonn, Germany (2019).
- *On Nonlinear PDE and their Applications*, The University of Texas at Austin (2019).
- *Nonlinear dispersive PDE, quantum many particle systems and the world between*, Summer Graduate School by MSRI, Cortona, Italy (2017).
- *Analysis Summer school*, University of Chicago, IL, USA (2017).
- *Recent Advances on Particle Systems in Kinetic Theory*, The University of Texas at Austin, TX, USA (2017).
- *Rivière-Fabes Symposium*, The University of Minnesota, MN, USA (2017).

Teaching Experience

Worked as a Teaching Assistant in:

- *Differential equations and Linear Algebra*, The University of Texas at Austin (Spring 2018).
- *Differential equations and Linear Algebra*, The University of Texas at Austin (Fall 2017).
- *International Teaching Assistant Teaching Ambassador Connect Program*, The University of Texas at Austin (Spring 2017).
- *Differential equations and Linear Algebra*, The University of Texas at Austin (Spring 2017).
- *Integral Calculus*, The University of Texas at Austin (Fall 2016).
- *Calculus II*, The University of Texas at Austin (Spring 2016).
- *Differential Calculus*, The University of Texas at Austin (Fall 2016).