

Personal Data

Name Ioannis Gkeneralis
Nationality Hellenic
Date of Birth May 24, 1990
Place of Birth Amarousio, Attiki, Greece
e-mail gkeneral@windowslive.com
Marital status Married, 2 children (2021, 2022)

Mathematical Interests

Geometric topology, Group actions, Equivariant topology, Toric topology

Academic Appointments

Sept.2024- **Postdoctoral Fellow**, Department of Mathematics, Aristotle University of Thessaloniki, Postdoc-
today toral mentor: Professor Panagiotis Batakidis
Sept.2024- **Military Teaching Staff and Lecturer**, Hellenic Air Force Technical NCO Academy, Dekeleia
today Air Base, Tatoi/Athens (Course: Advanced Mathematics I, II)
Sept.2017- **Military Teaching Staff and Lecturer**, Hellenic Air Force Technical NCO Academy, Dekeleia
Feb.2019 Air Base, Tatoi/Athens (Course: Advanced Mathematics I)

Education

Sep.2019- **PhD**, *University of the Aegean, School of Sciences*, Department of Mathematics, Thesis title:
Feb.2024 Topological Rigidity of Quoric Manifolds
Supervisor: Prassidis Efstratios.
Sep.2016- **MSc**, *Applied Mechanics*, National Technical University of Athens, School of Applied Mathematics
Feb.2018 and Physical Sciences, Department of Mechanics
GPA: 8.83/10, Master Thesis: The Caustic Method in Calculation of the Stress Intensity Factor for
Metallic Materials and Marbles.
Oct.2012- **MSc**, *Theoretical Mathematics*, National and Kapodistrian University of Athens, Department of
Feb.2016 Mathematics, Athens , GPA: 8.45/10
Master Thesis: *Symplectic Realizations*, Supervisor: Iakovos Androulidakis.
Sept.2008- **BSc**, *Hellenic Air Force Academy*, Engineers Department, Athens , (4 year diploma), GPA:
Jul.2012 90.7/100 (Excellent)
Dissertation title: *Study of the Hydraulic Analogy to Supersonic Flow. Simulations of the Analogy
Between Water Flow with a Free Surface and Two-Dimensional Compressible Gas Flow.* Supervisor: V.
Stergiopoulos. Mark of the dissertation: 100 (maximum).

Awards/Honors/Prizes

Sept.2001- *Award for Excellent Grades in High School and Junior High School*, Greek Ministry of Education
Jun.2008
Nov.2006 1st in *National Mathematics Olympiad, (Thalis 2006)*, Hellenic Mathematical Society

Publications

Published

6. 'Obstructions to lifting quaternionic torus actions' (with P.Batakidis), submitted.
5. 'Equivariant rigidity of complex and quaternionic moment-angle manifolds', submitted.
4. 'Remarks on topological rigidity of real moment-angle manifolds', submitted.
3. 'The topology of local quaternionic toric actions' (with P.Batakidis), submitted.
2. 'Tetraplectic structures compatible with local quaternionic toric actions' (with P.Batakidis), *Annals of Global Analysis and Geometry*, vol.69, 1, 2026.
1. 'Topological Rigidity of Quoric Manifolds' (with E.Prassidis), *Colloquium Mathematicum*, vol.179 (1), 1–19, 2025.

In preparation

- 'Sheaves on quoric manifolds' (with C.Aravanis).
- 'Stratified rigidity of quasitoric manifolds' (with E.Prassidis).
- 'Classification of toric Dold manifolds' (with B.Schutte)

Talks

- Oct 2026 How Much of the Homeomorphism Type is Determined in Toric Topology?, *Advances in Modern Topology*, Montenegrin Academy of Sciences and Arts, Podgorica, Montenegro
- Sep 2026 How Much of the Homeomorphism Type is Determined in Toric Topology?, *Manifolds and Groups at UCY*, University of Cyprus, Nicosia, Cyprus
- July 2026 Topological rigidity of moment-angle manifolds, *Third Workshop of Greek Woman in Mathematics*, Athens, Greece
- June 2026 Equivariant and topological rigidity of moment-angle manifolds, *Third Congress of Greek Mathematicians, TCGM-2026*, Athens, Greece (invited talk)
- May 2026 Topological rigidity of moment-angle manifolds, *International Polyhedral Product Seminar*, Princeton University, USA (invited talk – online)
- September 2025 Tetraplectic structures compatible with local quaternionic toric actions, *Geometry, Probability and Topology in Applications (GPTA)* Mathematical Institute MISANU, Belgrade, Serbia
- December 2024 Symplectic and Quaternionic toric manifolds. *Algebra and Geometry Day 2024*, Aristotle University of Thessaloniki, Greece
- October 2024 Rigidity in toric topology. *Geometry Seminar*, Aristotle University of Thessaloniki, Greece
- October 2024 Links between toric spaces. *Geometry Seminar*, Aristotle University of Thessaloniki, Greece
- August 2024 Topological rigidity of quoric manifolds. *Young Topologists Meeting (YTM2024)*. University of the Münster, Germany
- June 2024 Topological rigidity of quoric manifolds. *Meeting for Phd students*. University of the Aegean, Greece (invited talk)
- May 2024 Topological rigidity of quoric manifolds. *AGMA-24*. Odesa National University of Technology, Ukraine (online)
- May 2024 Topological rigidity of toric manifolds. *3th Young Researchers Meeting on Mathematical Areas*. University of Ioannina, Greece
- March 2024 "Standard" isotropy subgroups of $SU(2)^n$ -representations. *59th Seminar Sophus Lie*. Julius-Maximilians-Universität Würzburg, Germany

Posters

June 2025 Surgery theory in toric topology. Young Topologists Meeting 2025 (YTM 2025), KTH Royal Institute of Technology and Stockholm University, Sweden

Events

December 2025 Algebra and Geometry Day 2025, Aristotle University of Thessaloniki, Greece

September 2025 ICMAM Latin America Satellite Conference on Differential Geometry 2025 (online)

September 2025 "Combinatorial algebraic topology and applications III", Centro di Ricerca Matematica "E. De Giorgi", Pisa, Italy

June 2025 BMC II, Department of Mathematics, Aristotle University of Thessaloniki, Greece

September 2024 "16th Panhellenic Geometry Conference", Department of Mathematics, National and Kapodistrian University of Athens, Greece

February 2015 "Masterclass: topological K-theory and applications", Institut de Recherche de Mathématique Avancée, Strasbourg, France

September 2014 "Third Erlangen Fall School on Quantum Geometry", Department Mathematik, Friedrich – Alexander – Universität Erlangen – Nürnberg, Erlangen, Germany

Languages

Greek Native

English C2 *Proficiency, University of Westminster, London, 2006.*

French A2 *Ministère de l'Éducation nationale, de l'Enseignement supérieur et de la Recherche/DELF, 2006.*