Georgia Sfakianaki

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Nationality: Greek   •   **Date of Birth:** 05 March 1991

About me

I am a Ph.D. candidate in Industrial Mathematics with expertise in inverse problems. As an applied mathematician I have experience in solving mathematical problems taking into account their theoretical and numerical aspects. I am self-motivated but I also enjoy working in a team and I have often received positive feedback on my communication and organizational skills. My character is defined by analytical thinking and a problem-solving attitude which enables me to always overcome obstacles.

Work experience

Research Assistant   **Bremen, Germany**
Center for Industrial Mathematics, University of Bremen   *Nov 2016 — Apr 2020*
Scientific research in industrial mathematics with main focus on inverse problems.

Graduate Research Assistant   **Heraklion, Greece**
Institute of Applied and Computational Mathematics, FO.R.T.H.   *Jan 2015 — Jun 2015*
Study of existing scientific software for eventual application to concrete problems
in the field of vascular biomechanics.

Student Internship   **Heraklion, Greece**
Institute of Applied and Computational Mathematics, FO.R.T.H.   *Jul 2014 — Sept 2014*
Theoretical study and implementation of the Kalman filter for data processing.

Census Taker   **Chania, Greece**
Hellenic Statistical Authority   *May 2011*
Conducted interviews with residents in designated areas while adhering to specific
guidelines and confidentiality laws.

Education

Ph.D. in Industrial Mathematics   **Bremen, Germany**
Research Training Group π^3, University of Bremen   *since Nov 2016*
Thesis: "On the connection between sparsity and tolerances in parameter and data space", in English
Supervisor: Dr. rer. nat. Iwona Piotrowska-Kurczewski

M.Sc. in Applied and Computational Mathematics, `(Very Good, B+)`   **Heraklion, Greece**
Department of Mathematics and Applied Mathematics, University of Crete   *Sept 2014 — Jun 2016*
Major in Scientific Computing
Thesis: "Data Assimilation Methods", in English
Supervisor: Prof. Michael Plexousakis

B.Sc. in Applied Mathematics, `(Very Good, 7.3/10)`   **Heraklion, Greece**
Department of Applied Mathematics, University of Crete   *Sept 2008 — Nov 2014*
Major in Mathematical Methods and Software Development
Thesis: "Principal Component Analysis", in Greek
Supervisor: Prof. Michael Plexousakis

Technical skills

- **Programming:** experienced in MATLAB, good knowledge of Python, basic knowledge of C, Java and SQL
- **Database management:** basic knowledge of MySQL
- **Scientific tools:** basic knowledge of LifeV, SimVascular, ANSA, Gmsh and ParaView
- **Typesetting:** experienced in LaTeX, basic knowledge of MS Office and Libre Office
- **Operating Systems:** experienced both in Unix-based (Mint, Ubuntu, Fedora) and Windows environments
- **Version Control Systems:** basic familiarity with Git and Subversion (SVN)

Languages

Greek	*Native language*
English	*Professional working proficiency*
German	*Limited working proficiency*

Research interests

Scientific computing, inverse problems, data assimilation methods, big data analysis

Teaching experience

- Data analysis and inverse problems in engineering (seminar, tutoring in English)
- Theory of linear inverse problems (graduate course, tutoring in English)
- Programming in Python (undergraduate course, tutoring in Greek)

Workshops

- **navigare** — Career Coaching for International Women in Science 2017/2018
- Good scientific practice for Doctoral Researchers
- Soft-skills workshop "Team-building & Getting Started" for time and project management
- Scientific writing
- Gender and inter-cultural training
- Career paths between academia and economy

Hobbies

Watercolor painting, Yin Yoga

August 11, 2020

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