Georgia Sfakianaki

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

Personal statement

I am a Ph.D. candidate in Industrial Mathematics with expertise in inverse problems, experienced both in theoretical and computational approaches. I am self-motivated and focused on teamwork with excellent communication and organizational skills. My character is defined by analytical thinking and a problem-solving attitude which enable me to always overcome obstacles.

Work experience

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 – Sep 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"
Supervisor: Dr. Iwona Piotrowska-Kurczewski

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

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

Teaching experience

- Programming in Python (undergraduate course, tutoring in Greek)
- Theory of linear inverse problems (graduate course, tutoring in English)

Research interests

- Inverse problems, Tikhonov regularization, scientific computing, data assimilation methods

Languages

- Greek — *Native language*
- English — *Advanced level - IELTS Band Score* 7.5 *(2016)*

Technical skills

- **Programming:** experienced in Matlab, Python, basic knowledge of C and Java
- **Scientific tools:** basic knowledge of LifeV, SimVascular, ANSA, Gmsh and ParaView
- **Typesetting:** experienced in LaTeX, good knowledge of MS Office and Libre Office
- **Operating Systems:** experienced both in Unix-based and Windows environments

Workshops

- `navigare` – Carrer Coaching for International Women in Science 2017/2018
- Good scientific practice for (Post) Doctoral Researchers
- Soft-skills workshop "`Getting Started`" for PhD students, Scientific writing, Gender and intercultural training course

Hobbies

- Watercolor painting

Last updated: January 18, 2019