

Bartosz Malman

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Personal

Birth 22nd of July, 1989 in Pyrzyce, Poland
Citizenship Polish, Swedish
Languages English, Swedish, Polish (all fluent in speech and writing)

Education

- 2009-2014 **Master of Science in Computer Engineering**, *Faculty of Engineering (LTH), Lund University*, Lund.
With a specialization in computer vision and image analysis, grade average above 4.7 out of maximum 5.0
- 2012-2015 **Master of Science in Mathematics**, *Lund University*, Lund.
Pure mathematics, perfect grades
- 2015- **Doctor of Philosophy in Mathematics**, *Lund University*, Lund.
Pure mathematics, research in operator theory and functional analysis.
Degree in progress, expected completion in May 2020

Coursework sample

- **Programming/CS:** Object-oriented programming, Data structures, Algorithms and complexity, Concurrent programming.
- **Statistics:** Probability, Stochastic processes, Spatial statistics with image analysis, Nonparametric inference.
- **Applied mathematics:** Computational algebraic geometry, Optimization, Numerical methods for computer graphics, Computer vision, Image analysis.

Relevant work experience

- 2010-2011 **Teaching assistant**, *Faculty of Engineering (LTH)*, Lund.
Teaching assistant for introductory courses in Java programming, computer science, algorithms and data structures
- 2015- **Teaching assistant**, *Lund University*, Lund.
Teaching assistant for various courses in mathematics at the first and second year level

Technical skills

- Working knowledge of Java. Working knowledge and experience of algorithm implementation in Python, MATLAB. Experience with numerical computing Python libraries such as NumPy, and neural network libraries such as Keras.
- Working knowledge and experience of the web stack technologies PHP, Javascript and related libraries, CSS3, HTML. Experience with MVC frameworks such as Laravel.
- Basic knowledge of C++ and several other programming languages.

Scientific publications

3. *Hilbert spaces of analytic functions with a contractive backward shift*, Alexandru Aleman and Bartosz Malman, *Journal of Functional Analysis* 277.1 (2019): 157-199.
2. *Spectra of Generalized Cesàro Operators Acting on Growth Spaces*, Bartosz Malman, *Integral Equations and Operator Theory* 90.3 (2018): 26.
1. *Density of disk algebra functions in de Branges-Rovnyak spaces*, Alexandru Aleman and Bartosz Malman, *Comptes Rendus Mathématique* 355.8 (2017): 871-875.

More preprints available at the personal homepage.

Contributed talks

4. *Analytic function spaces with a contractive backward shift*, 30/08/2018, Analysis/PDE Reading Seminar, Texas A&M University, College Station, US.
3. *Continuous functions in de Branges-Rovnyak spaces*, 28/05/2017, Hilbert Function Spaces 2017, Gargnano, Italy.
2. *Integration operators on growth spaces*, 28/04/2017, Complex analysis seminar, Universität Wien, Vienna, Austria.
1. *Continuous functions in de Branges-Rovnyak spaces*, 17/03/2017, 33rd Southeastern Analysis Meeting, University of Tennessee, Knoxville, Tennessee.