

Konstantinos Psychas

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EDUCATION

Columbia University, New York, USA

- Master of Science (M.S.) in Electrical Engineering Sep 2013 – Feb 2015
 - Cumulative GPA: 3.83 / 4.00
- PhD Candidate in Electrical Engineering Sep 2013 –

National Technical University of Athens, Athens, Greece

- Ptychion (5 years of studies) in Electrical and Computer Engineering Sep 2006 – Dec 2011
 - Graduated 9th out of 330
 - Cumulative Grade: 9.26 / 10.00

SELECTED PUBLICATIONS

- A. A. Lazar, K. Psychas, N. H. Ukani, and Y. Zhou “A Parallel Processing Model of the Drosophila Retina,” *Neurokernel Request for Comments, Neurokernel RFC #3*, Aug 2015.
- Konstanteli, K.; Cucinotta, T.; Psychas, K.; Varvarigou, T., “Admission Control for Elastic Cloud Services,” in *Cloud Computing (CLOUD), 2012 IEEE 5th International Conference on*, vol., no., pp.41-48, Jun 2012. doi: 10.1109/CLOUD.2012.63

AWARDS & SCHOLARSHIPS

- Edwin Howard Armstrong Fellowship (Columbia University) 2014 – 2017(expected)
- Second Prize in International Mathematical Competition(IMC) 2009
- Bronze Medal IMO 2006 2006

PROJECTS

- Data Science project on Internet Marketing 2016
 - Developed Spark models for prediction of user response to ad exposure, trained on data of MediaMath company.
 - Achieved performance comparable with MediaMath models and some ideas were later used by company.
- brain2neo 2016 –
 - Python tool for conversion of documents of an application’s XML format to Neo4j graphs.
- Neurokernel 2014–2015
 - Project on simulation of fruit fly brain
 - Performed maintenance tasks and created derivative projects of fly retina and lamina, and integrated them.
- Jitsi (former SIP Communicator) 2010
 - Modified a version of this Internet Communication Java Application that used protocol SIP
 - Added extra features like blocking of incoming calls as part of Software Engineering course

WORK EXPERIENCE

Columbia University, New York, USA

- Teaching Assistant
 - Intro to Computational Neuroscience Sep 2014, Sep 2015, Sep 2016
 - Deep learning Jan 2016
 - Random Signals & Noise Jan 2015

National Technical University of Athens, Athens, Greece

- EXPERIMEDIA Project Research Assistant Oct 2011 – Jul 2012
- Teaching Assistant
 - Algorithms and Complexity 2010
 - Introduction to Programming 2007

LANGUAGES

- Greek: Native language.
- English: Fluent (speaking, reading, writing).
- German: basic (reading).

SKILLS**PROGRAMMING LANGUAGES**

- Regular Use: MATLAB, Python
- Past/Occasional Use: R, Javascript, Java, C

OTHER TOOLS

L^AT_EX, Vim, Microsoft Excel scripting, Git, Mercurial

**SELECTED
COURSEWORK**

- Graduate Level: Operating Systems, Machine Learning, Networks Algorithms and Dynamics, Advanced Digital Signal Processing, Convex Optimization
- Undergraduate Level: Algorithms & Complexity, Software Engineering, Cryptography, Programming Languages, Databases, Internet Programming, Computer Architecture, Stochastic Systems and Communications, Graph Theory, Computer Graphics

**STANDARDIZED
TESTS**

- GRE computer science subject test: 840 (92%)
- TOEFL: 98

Nov 2011
Oct 2011

**INTERESTS &
HOBBIES**

Running, Board Games