

# Konstantinos Psychas

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## EDUCATION

### Columbia University, New York, USA

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

### 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

## 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<sup>A</sup>T<sub>E</sub>X, Vim, Microsoft Excel scripting, Git, Mercurial

## AWARDS & SCHOLARSHIPS

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

## STANDARDIZED TESTS

- GRE computer science subject test: 840 (92%) Nov 2011

**SELECTED  
COURSEWORK**

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

**SELECTED  
PUBLICATIONS**

- A. A. Lazar, K. Psychas, N. H. Ukani, Y. Zhou, "A Parallel Processing Model of the Drosophila Retina," *Neurokernel Request for Comments, Neurokernel RFC #3* , Aug 2015.
- K. Konstanteli, T. Cucinotta, K. Psychas, T. Varvarigou, "Admission Control for Elastic Cloud Services," in *Cloud Computing (CLOUD)*, 2012 IEEE 5th International Conference on , pp.41-48, Jun 2012.

**INTERESTS &  
HOBBIES**

Running, Board Games