Resume

| PERSONAL INFORMATION | First name / Surname: E-mail: | Piotr Migdał pmigdal@gmail.com | |
|-------------------------|---|--|---|
| | Phone: | +34 644 226 536 (Spanish), +48 537 459 | 068 (Polish) |
| | Homepage: Profiles: | http://migdal.wikidot.com/en GitHub, StackExchange | |
| OBJECTIVE | A PhD student in quantum physics looking for challenges in data science and programming. | | |
| Experience | Data Science Intern at Startup Compass Inc., San Francisco, CA, USA Jul – Oct 2013 Designing distance function for software companies, based on a multidimensional dataset. Data processing (Python: SciPy, Pandas; MongoDB), data exploration and visualization (Gephi, D3.js). Participated in BigDive, a 4-week long hands-on workshop in data science and big data processing, for 20 participants: | | |
| RESEARCH | Related expertize: quantum mechanics, statistical mechanics, graph theory, complex sytstems, complex networks, information theory, entropy, collective decision-making, mathematical psychology Internships at: ISI Foundation (Italy), ICFO (Spain), Univ. of Toruń (Poland), MIT (USA) Research papers: 8 publications, 6 available openly on arXiv; a video abstract for Qubism Conferences and workshops: in complex systems (e.g. ECCS2012, NetSci2011), quantum optics and information (e.g. QISM2012, QCMC2012) | | |
| Education | Quantum Optics Theory Group University of Warsaw, Warsa • Master's Degree (5 year pro | otonic Sciences, Castelldefels (Barcelona), Spain, advisor: prof. Maciej Lewenstein aw, Poland (MISMaP program) gram), Theoretical Physics, thesis, grade: 5/5 atics (Game Theory), thesis, grade: 5/5 | Feb 2011– 2005–2011 Jan 2011 Sept 2009 |
| TEACHING | • Courses on: quantum mechanics and cryptography, simulating social phenomena in Python | | |
| GIFTED HIGH-SCHOOL | measuring fractal dimensionVoluntary tutor of the Polis | from images, Fourier analysis and waves | 2006- |
| STUDENTS | · · | e 21st European Union Contest for Young Scientist | |
| Projects, | • Started an unconference ser | ies Offtopicarium | Jan 2012– |
| ACTIVITIES | - | nantum game, with ICFO and CosmoCaixa | ${\rm Mar~2012} -$ |
| | • | ~ | Mar 2011–2012 |
| | Co-organized 6th and 7th S The head organizer of a nat | ional physics student's conference VII OSKNF | 2010–2011 2008 |
| | • Founded a student's associa | | 2006 |
| Awards, Scholarships | • ICFO Innovation Fund gran | at awarded for Confrenzy | Oct 2011 |
| | | y the Foundation for Polish Science | 2010 |
| | | eptional achievements in science Massachusetts Institute of Technology, MA, USA) | 2007–2010 2005 |
| | • Scholarship of the Polish Ch | | 2003–2005 2004 |
| SKILLS | • Languages: Polish (native), | · , , | |
| | Drogramming languages D. | thon Isra Script Mathematica I a ToY | |

• Programming languages: Python, JavaScript, Mathematica, LaTeX,

previously: MATLAB, LabView, Ocaml, PostScript

• OS (user): Mac OS X, Linux, Windows