## Resume

PERSONAL INFORMATION	First name / Surname: E-mail:	Piotr Migdał	
	Phone:	$\begin{array}{l} {\tt pmigdal@gmail.com} \\ +48\ 537\ 459\ 068 \end{array}$	
	Homepage:	http://migdal.wikidot.com/en	
	Profiles:	GitHub, StackExchange	
How am I?	A data scientist (data analysis and visualization), with scientific background (PhD in quantum optics theory).		
EXPERIENCE	• Freelancing in data analysis and data visualization Jan 2014 – (now) an example project: Szkolomat for projekt:polska — data consultancy, data cleaning and merging, geocoding.		
	<ul> <li>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).</li> </ul>		
	<ul> <li>Participated in BigDive, a 4-week long hands-on workshop in data science and big data processing, for 20 participants:</li></ul>		
RESEARCH	• Related expertize: quantum mechanics, statistical mechanics, graph theory, complex sytstems, complex networks, information theory, entropy, collective decision-making, mathematical psychology		
	<ul> <li>Internships at: ISI Foundation (Italy), ICFO (Spain), Univ. of Toruń (Poland), MIT (USA)</li> <li>Research papers: 12 publications, 10 available openly on arXiv; a video abstract for Qubism</li> <li>Conferences and workshops: in complex systems (e.g. ECCS2012, NetSci2011), quantum optics and information (e.g. QISM2012, QCMC2012)</li> </ul>		
Education	ICFO - The Institute of Photonic Sciences, Castelldefels (Barcelona), Spain		
	Quantum Optics Theory Group, • PhD Degree, cum laude	advisor: prof. Maciej Lewenstein	2011–2014 Dec 2014
		similarity of many-body wavefunctions.	
	University of Warsaw, Warsaw,		2005 – 2011
		gram), Theoretical Physics, thesis, grade: 5/5 atics (Game Theory), thesis, grade: 5/5	Jan 2011 Sept 2009
TEACHING GIFTED	• Courses on: quantum mechanics and cryptography, simulating social phenomena in Python, measuring fractal dimension from images, Fourier analysis and waves		
HIGH-SCHOOL STUDENTS	<ul><li>Voluntary tutor of the Polish</li><li>Mentor of the winners of the</li></ul>	h Children's Fund e 21st European Union Contest for Young Scient	2006– ists 2009
Projects,	• Started an unconference seri	ies Offtopicarium	Jan 2012–
ACTIVITIES		a website listing scientific events ional physics student's conference VII OSKNF tion SKFiz UW	Mar 2011–2012 2008 2006
Awards,	• ICFO Innovation Fund gran		Oct 2011
SCHOLARSHIPS	• Research Science Institute (1	reptional achievements in science Massachusetts Institute of Technology, MA, USA	
	<ul><li>Scholarship of the Polish Ch</li><li>Bronze Medal in the Interna</li></ul>	uldren's Fund ational Physics Olympiad (Pohang, South Korea)	2003–2005 2004

SKILLS

• Languages: Polish (native), English (fluent)

• Programming languages/technologies: Python, JavaScript, Mathematica, LaTeX, Git