

GREGORY SZEPEL

PERSONAL INFORMATION

Born in Vienna, Austria 1992

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EDUCATION

Physics Masters	09/2011 - 05/2015	University of London, King's College First Class · <i>Physics MSci</i> · School of Natural & Mathematical Science Focus on non-equilibrium statistical mechanics, information theory and complex networks. Masters project involved using the Keldysh formalism to investigate angular dependence of molecular current-voltage characteristics. Project Supervisor: Prof. Lev KANTOROVICH · lev.kantorovich@kcl.ac.uk
Exchange Year	08/2013 - 06/2014	University of California, Berkeley GPA: 3.7 · <i>Physics Major</i> · College of Letters & Science Attended lectures at the Redwood Center for Theoretical Neuroscience. Expanded knowledge on analytical mechanics, special relativity, solid state physics and machine learning. Duration of stay motivated academic path and insight into different academic and industrial cultures. Study Abroad Tutor: Nicola BONINI · nicola.bonini@kcl.ac.uk

WORK EXPERIENCE

Birds.ai	11/2016 - Present	Research Engineer, DELFT Development and maintenance of drone image analysis pipeline for agricultural surveillance and industrial inspection. Applied machine learning techniques and learned how to deploy scalable and secure web applications. Chief Executive Officer: Camiel VERSCHOOR · camiel@birds.ai
Institute of Science and Technology	09/2015 - 11/2016	Graduate Researcher, VIENNA Rotations in cell migration and biochemistry groups lead to investigation of non-equilibrium responses of Lamellipodial Actin and in vitro reconstituted FtsZ:FtsA vortices. Submission of Kinetic Monte-Carlo and deterministic rate equation approaches currently under review. Dr. Med. Michael SIXT · msixt@ist.ac.at Prof. Karsten KRUSE · k.kruse@physik.uni-saarland.de
NASA Ames Research Centre	07/2014 - 09/2015	Contractor, NASA AMES SILICON VALLEY Coding of unsupervised machine learning algorithms to classify sleep stages on high resolution single channel electroencephalogram (EEG) recordings. Extraction of biomarkers related to neurophysiological disorders and development of communication software. Chief Executive Officer: Dr Philip Low · philip@neurovigil.com
Gstaad Snowsports	Winter Seasons	Kids Instructor, SWITZERLAND Group and private lessons in 250km of alpine pistes. Lessons taught in German, French, English and Russian. Pedagogical training with children ages 3-13. Development of long term client relationships. School Director: Jan BRAND · jan@gstaadsnowsports.ch
King's College London	06/2013 - 08/2013	Research Studentship, KING'S COLLEGE LONDON Simulation of photon transport in random lasing process. Collection and analysis of data from experiment. Presentation of findings and evaluation as member of research team. Research Supervisor: Dr Riccardo SAPIENZA · riccardo.sapienza@kcl.ac.uk

	<i>Sep-Dec 2012</i>	Market Stall Owner, CAMDEN MARKET
<i>Camden Market</i>	Managing market stall in tourist area of north London selling 3D IQ puzzles made of wood and bamboo. Creative presentation and sales to young and old audiences. Financial planning. Supplier Contact: Ben MELDRUM · ben@professorpuzzle.com	
	<i>Jan-Dec 2012</i>	Secondary Education Tutor, PRIVATE — London
<i>Private Tutor</i>	Tutoring (I)GCSEs, A-levels and IB curricula, specialising in Maths and Physics. Emphasis on the presentation and communication of science. Multiple perspective problem solving.	
	<i>09/2011 - 09/2012</i>	Venues Team, KING'S COLLEGE STUDENT UNION
<i>King's College Student Union</i>	Organisation and catering staff at student events and bars. Stamina, sweat and teamwork to quench the thirst of students. The good life at the bar. Manager: Chris WYNNE · Chris.Wynne@kclsu.org	

COMPUTER SKILLS

<i>Intermediate</i>	DEVELOPMENT Latex, Amazon Web Services PROGRAMMING C++, Lua, Wolfram Mathematica
<i>Advanced</i>	DEVELOPMENT Git, Linux Server PROGRAMMING NodeJs, Python

LANGUAGES

<i>Basic</i>	Hungarian
<i>Intermediate</i>	Russian, French
<i>Advanced</i>	English, German

PUBLICATIONS

Müller, J. 2016. Load-adaptation of lamellipodial actin networks. Cell Press [In Review]

AWARDS & QUALIFICATIONS

<i>Awards</i>	2014 · Study Abroad Student Award – King's College London 2013 · The Gordon Rogers Scholarship - Top 5 Performing Students 2013 · Andrewes Prize - Best Examination Performance 2012 · Dillon Prize - Best Examination Performance
<i>Qualifications</i>	2016 · Electron Microscope Training - Institute of Science & Technology 2013 · Basic Laser Safety Certificate - King's College London 2012 · Kids Ski Instructor Certificate - Swiss Snowsports

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