

# Felicia Burtscher | CV

as of June 2018

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## Previous Employment

- **FU Berlin, Department of Mathematics and Computer Science** **Berlin, GER**  
*Teaching Assistant* April 2017–September 2017
- **Accenture** **Munich, GER**  
*Intern in Technology Strategy* February 2017–March 2017
- **Walter and Eliza Hall Insitute of Medical Research** **Melbourne, AUS**  
*Undergraduate Research Opportunity Program Student* August 2016–January 2017
- **Yale University, Molecular, Cell and Developmental Biology** **New Haven, USA**  
*Summer Research Assistant* June 2016–July 2016
- **Zuse Institute Berlin (ZIB), Numerical Analysis and Modelling** **Berlin, GER**  
*Student Research Assistant in the Computational Systems Biology group* January 2015–February 2016
- **Humboldt University of Berlin, Theoretical Biophysics group** **Berlin, GER**  
*Student Research Assistant* October 2013–December 2014
- **BASF SE** **Ludwigshafen, GER**  
*Intern in R&D Computational Chemistry and Biology* August 2014–September 2014
- **Gymnasium Ottobrunn** **Munich, GER**  
*Private tutor* 2007–2012

## Education

- Academic Qualifications.....
- **Imperial College London** **London, UK**  
*MSc Bioinformatics and Theoretical Systems Biology* 2017–2018 (expected)
  - **Freie Universität Berlin and University of Melbourne** **Berlin, GER and Melbourne, AUS**  
*BSc Mathematics with Philosophy (top 10% of cohort)* 2013–2016
  - **Freie Universität Berlin and Charité** **Berlin, GER**  
*BSc Bioinformatics (top 5% of cohort)* 2012–2016
  - **Gymnasium Ottobrunn** **Munich, GER**  
*A-levels equivalent(top 2% of cohort)* 2003–2012

## International experience

- **Undergraduate workshop in Israel:** In 2017, I participated in a 10-day workshop on Spectral Graph Theory and topics in the Theory of Zeta and L-Functions at the Einstein Institute of Mathematics in Jerusalem. It consisted of seminar-style courses as well as talks given by the students themselves. It was funded by the Hebrew University of Jerusalem, the Freie Universität Berlin and l'École Polytechnique.
- **Year in Bolivia:** In 2009 and 2010, I spent a year abroad in La Paz, Bolivia as a student at a local High School. It was a year entirely different to what I had ever experienced. I met great people and I learned a lot not only about Bolivia and South America but also about myself and my home country. Upon finishing High School I returned to South America to travel through Argentina, Chile and Uruguay for a couple of months, and I have come back ever since.
- **Summer camp in China:** Complementary to my studies in Mandarin at my High School I got the chance to participate in a summer camp of Confucius Institute/HANBAN at Beijing Foreign Studies University in China in 2011. I made progress in Mandarin, learned about China and the Chinese culture and met a lot of students from all over the world.
- **Various other student exchanges:** I participated in several other (2-week to 3-month long) exchange projects, i.a. with South Africa, Israel, Russia, Poland and France (Université Pierre et Marie Curie) between 2008 and 2012.

## Technical and language skills

- **Programming Languages:** Good skills in: Bash Shell UNIX and Scripting, Julia, Python, MATLAB/Octave, R, Java, C++, C#, Haskell, SQL
- **Languages:** German (native speaker), English (C1), Spanish (fluent), French (B2/C1), Hebrew (written, basic)

## Interests and extra-curricular activities

- I was **vice president** of the German Young Scientists' Network *juFORUM e.V* from April 2017-2018. I was responsible for our international contacts, enhancing our local structure as well as for the mentoring program and various other things. We as a board had skype sessions every fortnight and regular email communication.
- From 2014 until 2016 I was a **mentor** in the German Young Scientists' Network *juFORUM e.V* where I i.a. gave introductory workshops for App Programming for High School kids. I was also a mentor for 2 students in the scope of the mentoring program of *Femtec GmbH* and the *Fraunhofer* Society who participated in the *Talent Take Off* events for gifted students interested in STEM.
- I was a certified **mentor** for Bioinformatics in my third year of university. I guided and looked after the freshmen students, gave lessons for developing various soft skills (time management, exam preparation) as well as technical skills (Latex, Programming in Haskell, Computer Science 1 exam preparation). I also gave a tour around the university campus for international students at the beginning of the semester.
- I was a student **representative** at the Commission for Women and at the Commission for Bioinformatics at the department of Mathematics and Computer Science of FU Berlin between 2013 and 2016. We had regular meetings and discussed different topics, eg. allocating the yearly budget and granting stipends to conferences.