


# boris pfahringer

computer science / mathematics

## about

bpnzlt@gmail.com  
+49 (1523) 6272327  
 Austrian Citizen

## languages

Fluent in  
English & German

## programming

Python, C++, Java

## education

- 2014–2016 **Masters in Mathematical Modelling** (GPA: 3.58 / 4) UAB (MathMods)  
Title: *End-to-end Music Genre Recognition using Deep Neural Networks*  
Supervised by: Dr. Beat Gfeller (Google), Dr. Aurelli Alabert (UAB)  
A multi-disciplinary program in mathematical modelling, divided between the five universities of the MathMods consortium, each one offering a different specialisation. I completed the Stochastic Modelling and Optimization specialisation offered by the Autonomous University of Barcelona, and wrote my thesis while an intern at Google Zürich.
- 2010–2014 **Bachelor of Computing and Mathematical Sciences with First Class Honours**  
University of Waikato

## experience

- 2016–now **Software Engineer** think-cell GmbH  
Reimplementing the graphics stack, used for the display of custom UI elements, in DirectX 10. (C++)
- 2016 **Software Engineering Intern** Google Zurich  
Applying deep neural networks to music genre recognition and music tag prediction. (Python, TensorFlow, C++)
- 2014 **Software Engineering Intern** Google New York and Google Mountain View  
Analysing and extending the capabilities of Google Search using semantic parsing techniques. (C++)
- 2012–2013 **Software Engineering Intern** Google Australia  
Development on the Google Maps Android API and small contributions to Google Maps for Android. (Java, GLSL)
- 2011–2012 **Research Assistant** University of Waikato  
Developed a compiler and IDE for the research language JStar, currently being used to teach Extremely Parallel Programming at the university. (Java/Xtext)

## referees

- Beat Gfeller** Research Scientist, Google  
email: gfbear@gmail.com
- Bill McCartney** Managing Director, BlackRock  
email: bill.mccartney@gmail.com
- Mark Utting** Senior Research Fellow, Queensland University of Technology  
email: mark.utting@qut.edu.au

## honours

- 2014 Erasmus Mundus Scholarship MathMods  
2013 University Scholarship The Freemasons Charity  
2010–2012 Three Dean's Awards for Excellence University of Waikato  
2011 Millennium Prize in Mathematics University of Waikato  
2009–2010 Two Bronze Medals International Olympiad in Informatics

