

# URI KLEIN

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**(This is a partial, shortened, CV. For the full version, please contact me)**

## EDUCATION

- PhD Computer Science Courant Institute, New York University Sep. 2011 GPA 4.0
- Dissertation: proposed a methodology for automatic translation of specification into defect-free software
  - Advised by Prof. Amir Pnueli, recipient of the Turing Award (Nobel-prize equivalent of computer sci.)
  - Worked as a Teaching Assistant at the graduate school
- MSc Computer Sci. & Applied Math. Weizmann Institute of Science, Israel May 2006 GPA 95.5/100
- Thesis: designed a computer-model of the human visual system that learns to classify objects in pictures
  - Advised by Prof. Shimon Ullman, a world renowned leader in the fields of computer & human vision
- BSc Computer Engineering Technion – Israel Inst. of Tech., Israel Sep. 2003 GPA 91.1/100
- Graduated *summa cum laude*
  - Majored in DSP; Designed a networking computer chip in the VLSI lab

## ACADEMIC HONORS AND FELLOWSHIPS

- Won Columbia U. 2011 grad. case competition Team of 3, out of selected 65
- Henry M. McKracken Fellowship Full funding for duration of PhD \$127,500 + tuition
- Feinberg Fellowship Full funding for duration of MSc \$34,330 (free tuition)
- President Honor for excellence (BSc) Graduated 4<sup>th</sup> in class of 79
- NATO Marktoberdorf Summer School grant Highest amount awarded in class €2,120
- Won 4 competitive travel grants (MSc & PhD) \$4,200
- Dean's Supplementary Fellowship Grant (PhD) \$1,000
- Outstanding Final Project Award (BSc) Top 4% of 90 candidates
- President's list: 3 semesters; Dean's list: 5 (BSc)

## PROFESSIONAL EXPERIENCE

- Senior Strategy Consultant** 2011 – today  
*IBM (corporate headquarters), Armonk, NY*
- Intern – Computing & Software Principles** 2010  
*Bell Labs (Alcatel-Lucent), Murray Hill, NJ*
- Co-Founder (product management) & Advisor** 2006 – 2008  
*Mindojo (formerly Cognicious), Tel-Aviv, Israel & New York, NY*  
• First test-case of the company's technology: [masterGMAT.com](http://masterGMAT.com)
- Investment Associate Intern** 2007  
*Bridgewater Associates, Westport, CT*
- Software Engineer** 2002 – 2003  
*IBM Research, Haifa, Israel*

## SELECTED PUBLICATIONS AND INVITED SEMINARS

- 'Effective Synthesis of Asynchronous Systems from GR(1) Specifications', with A. Pnueli & N. Piterman.  
*Proceedings of the 13<sup>th</sup> International Conference on Verification, Model Checking, and Abstract Interpretation: Lecture Notes in Computer Science, Volume 7148, p283-298, 2012*
- 'Topics in Formal Synthesis and Modeling'. *PhD Dissertation - Department of Computer Science, Courant Institute of Mathematical Sciences, New York University, New York, NY, 2011*

- ‘Formalization and Automated Verification of RESTful Behavior’, with K. S. Namjoshi. *Proceedings of the 23<sup>rd</sup> International Conference on Computer Aided Verification: Lecture Notes in Computer Science*, Volume 6806, p541-556, 2011
- ‘Revisiting Synthesis of GR(1) Specifications’, with A. Pnueli. *Hardware and Software: Verification and Testing (HVC’10): Lecture Notes in Computer Science*, Volume 6504, p161-181, 2011
- ‘Synthesis of Programs from Temporal Property Specification’, with A. Pnueli. *Proceedings of the 7<sup>th</sup> ACM-IEEE Conference on Formal Methods and Models for Codesign*, p1-7, 2009
- ‘A Neurobiological Feature Hierarchies Extraction Network Model for Object Classification’. *MSc Thesis - Weizmann Institute of Science, Rehovot, Israel*, 2006
- ‘Dynamic Abstraction in Reinforcement Learning via Clustering’, with S. Manor, I. Menache & A. Hoze. *Proceedings of the 21<sup>st</sup> International Conference on Machine Learning*, p560-567, 2004
- ‘Efficient Synthesis of Asynchronous Systems’. Seminar given nationally and internationally, including in:
  - Département d'Informatique, École Normale Supérieure, Paris, France
  - Schloss Dagstuhl - Leibniz-Zentrum für Informatik, Dagstuhl, Germany

#### **COMPUTER**

- Experienced with: C, C++, Java, Matlab, VHDL
- Familiar with: C#, Perl, SQL

#### **MISCELLANEOUS**

- Fluent in English & Hebrew
- Dual-citizenship: Israel & the European-Union