

# Viktor Toman

<https://vitosvk.github.io/>

## Work Address

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## PERSONAL INFORMATION

**Date of Birth:** 10. July 1993  
**Place of Birth:** Nové Zámky, Slovakia  
**Nationality:** Slovak

## EXPERIENCE

**Research Intern at Google Research**, Zürich, Switzerland remote-covid19 Aug 2020 – Nov 2020

- On-Device Machine Learning
- Advisors: Anna Goralska, Félix de Chaumont Quitry
- Programming: C++, MapReduce, Python, TensorFlow

**Research Intern at Google Research**, Mountain View, California, USA Jul 2019 – Oct 2019

- Machine Learning in Higher-Order Theorem Proving
- Advisors: Kshitij Bansal, Markus Rabe
- Programming: MapReduce, Python, TensorFlow

**Research Intern at Google Research**, Mountain View, California, USA Jul 2018 – Oct 2018

- Machine Learning in Higher-Order Theorem Proving
- Advisors: Sarah Loos, Christian Szegedy
- Programming: Python, TensorFlow

## EDUCATION

**PhD at IST Austria**, Klosterneuburg, Austria Sep 2016 – Sep 2021 (expected)

- Computer Science – Formal Methods
  - Focus: Verification of concurrent programs, Symbolic model checking
- Advisors: Krishnendu Chatterjee, Andreas Pavlogiannis

**Mgr at Masaryk University**, Brno, Czech Republic Sep 2014 – Jun 2016

- Computer Science – Parallel and Distributed Systems
  - Graduated with honours, CGPA 1.00, Dean's award

**Bc at Masaryk University**, Brno, Czech Republic Sep 2011 – Jun 2014

- Computer Science – Mathematical Informatics
  - Graduated with honours, CGPA 1.34, Dean's award

## PUBLICATIONS

T. L. Bui, K. Chatterjee, T. Gautam, A. Pavlogiannis, VT. Submitted  
*The Reads-From Equivalence for the TSO and PSO Memory Models.* [pdf] [C++]

P. Agarwal, K. Chatterjee, S. Pathak, A. Pavlogiannis, VT. CAV 2021  
*Stateless Model Checking under a Reads-Value-From Equivalence.* [C++]

K. Bansal, C. Szegedy, M. N. Rabe, S. M. Loos, VT. arXiv  
*Learning to Reason in Large Theories without Imitation.* [pdf]

K. Chatterjee, A. Pavlogiannis, VT. OOPSLA 2019  
*Value-centric Dynamic Partial Order Reduction.* [pdf] [C++]

P. Ashok, T. Brázdil, K. Chatterjee, J. Křetínský, C. H. Lampert, VT. QEST 2019  
*Strategy Representation by Decision Trees with Linear Classifiers.* [pdf] [Python]

K. Chatterjee, M. Henzinger, V. Loitzenbauer, S. Oraee, VT. CAV 2018  
*Symbolic Algorithms for Graphs and MDPs with Fairness Objectives.* [pdf] [C++]

<b>LEADERSHIP</b>	Supervised Konstantin Küffner – IST Austria PhD Student ■ Project in progress	Mar 2021 – May 2021
	Supervised Shreya Pathak – IST Austria Research Intern ■ Stateless Model Checking under a Reads-Value-From Equivalence	Apr 2020 – Jul 2020
	Supervised Pratyush Agarwal – IST Austria Research Intern ■ Stateless Model Checking under a Reads-Value-From Equivalence	Apr 2020 – Jul 2020
	Supervised Truc Lam Bui – IST Austria Research Intern ■ The Reads-From Equivalence for the TSO and PSO Memory Models	Dec 2019 – Mar 2020
	Supervised Tushar Gautam – IST Austria Research Intern ■ The Reads-From Equivalence for the TSO and PSO Memory Models	May 2019 – Jul 2019
<b>TEACHING</b>	Teaching Assistant – Formal Methods for Learned Systems ■ PhD course at IST Austria	Feb 2020 – Apr 2020
	Teaching Assistant – Randomized Algorithms ■ PhD course at IST Austria	Feb 2019 – May 2019
	Teaching Assistant – Randomized Algorithms ■ PhD course at IST Austria	Feb 2018 – May 2018
<b>LANGUAGES</b>	■ C++, Java, Python ■ English, Czech, Slovak (native), German (intermediate)	
<b>REFERENCES</b>	<b>Krishnendu Chatterjee</b> IST Austria krishnendu.chatterjee@ist.ac.at	<b>Anna Goralska</b> Google Research annago@google.com
	<b>Andreas Pavlogiannis</b> Aarhus University pavlogiannis@cs.au.dk	<b>Christian Szegedy</b> Google Research szegedy@google.com

[CV last update: April 2021]