

# Radoslav Fulek | Curriculum Vitae

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Researcher working in the field of Discrete Geometry, Computational Geometry, and Graph Theory.

## Education

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- **École Polytechnique Fédérale de Lausanne** **Lausanne, Switzerland**  
*PhD. in Mathematics*  
Specialization: **Discrete and Computational Geometry**  
Thesis Title: *Intersection patterns of edges in topological graphs*  
Advisor: *Prof. János Pach*  
*September 2008–May 2012*
- **Simon Fraser University** **Burnaby, BC, Canada**  
*M.Sc. in Computing Science*  
Specialization: **Discrete and Computational Geometry**  
Thesis Title: *Intersecting convex sets by rays*  
Advisor: *Prof. Gábor Tardos*  
*September 2006–June 2008*
- **Comenius University** **Bratislava, Slovakia**  
*M.Sc. (“magister”) in Computing Science*  
Specialization: **Artificial Intelligence and Parallel Computation**  
Thesis Title: *Convex crossing numbers of selected classes of graphs* (in Slovak)  
Advisor: *Prof. Ondrej Sýkora*  
*September 2000–June 2005*

## Postdoctoral Experience

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- **Stanford University** **Stanford, CA, USA**  
*acting assistant professor*  
*January 2022–*
- **UC San Diego** **La Jolla, CA, USA**  
*lecturer*  
*July 2020–December 2021*
- **University of Arizona** **Tucson, AZ, USA**  
*postdoctoral researcher hosted by Prof. Stephen Kobourov*  
*September 2019–September 2020*
- **IST Austria** **Klosterneuburg, Austria**  
*Lise Meitner Fellow hosted by Prof. Uli Wagner*  
*July 2017–June 2019*
- **IST Austria** **Klosterneuburg, Austria**  
*IST Fellow hosted by Prof. Uli Wagner*  
*March 2015–June 2017*
- **Columbia University** **New York City, NY, USA**  
*postdoctoral fellow hosted by Prof. Maria Chudnovsky*  
*September 2013–February 2015*
- **Charles University** **Prague, Czech Republic**  
*postdoctoral researcher hosted by Prof. Jan Kratochvíl*  
*February 2013–August 2013*
- **École Polytechnique Fédérale de Lausanne** **Lausanne, Switzerland**  
*postdoctoral researcher in the group of Prof. János Pach*  
*June 2012–January 2013*

## Honors and Awards

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- Lise Meitner fellowship, FWF, Austria, 2017, EUR 162, 000
- Mobility grant for young researchers, Swiss National Science Foundation, Switzerland, 2012, CHF 69, 000
- PIMS Postdoctoral fellowship, Pacific Institute for Mathematical Sciences, Canada 2012, declined
- Marie Curie fellowship, Alfréd Rényi Institute of Mathematics, Budapest, Hungary, 2009
- SFU Graduate fellowship, Simon Fraser University, Burnaby, BC, Canada, 2007

## Professional Service

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Program committee member of 38th International Symposium on Computational Geometry (2022)  
Program committee member of 31st Int. Symposium on Graph Drawing and Network Visualisation (2020)  
Program committee member of Computational Geometry: Young Researchers Forum (2019)  
Program committee member of 26th Int. Symposium on Graph Drawing and Network Visualisation (2018)  
Program committee member of 24th Int. Symposium on Graph Drawing and Network Visualisation (2016)

## Review Duties (selection)

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Algorithmica, Combinatorica, Computational Geometry Theory and Applications, Discrete & Computational Geometry, Discrete Mathematics, Electronic Journal of Combinatorics, Journal of Combinatorial Theory Series A (JCTA), Journal of Graph Theory, SIAM Journal on Discrete Mathematics (SIDMA), European Symposium on Algorithms (ESA), Int. Symposium on Graph Drawing and Network Visualisation (GD), Symposium on Computational Geometry (SoCG), Symposium on Discrete Algorithms (SODA), Workshop on Graph-Theoretic Concepts in Computer Science (WG)

## Invited Lectures (selection)

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2020 Mathematics Colloquium, Baruch College, NYC, USA  
2019 Computer Science Colloquium, University of Arizona, Tucson, AZ, USA  
2019 Mathematics Colloquium, Iowa State University, Ames, IA, USA  
2018 Workshop on Combinatorial Geometry (CG Week'18), Budapest, Hungary  
2018 BIRS Workshop 'Extremal Problems in Combinatorial Geometry', Banff, Canada  
2017 BIRS Workshop 'Geometric and Structural Graph Theory', Banff, Canada  
2017 Current Trends in Theoretical Computer Science (STTI'17), Prague, Czech Republic  
2016 Joint STOC/SoCG Workshop Day 'Geometric representations of graphs', Boston, USA  
2015 Current Trends in Theoretical Computer Science (STTI'15), Prague, Czech Republic  
2014 Oberwolfach Workshop 'Discrete Geometry', Oberwolfach, Germany  
2013 BIRS Workshop 'Geometric and Topological Graph Theory', Banff, Canada  
2013 Current Trends in Theoretical Computer Science (STTI'13), Prague, Czech Republic  
2012 Bernoulli Reunion Conference on Discrete and Computational Geometry, EPFL, Switzerland  
2011 Current Trends in Theoretical Computer Science (STTI'11), Prague, Czech Republic  
2010 Special Semester on Discrete and Computations Geometry, Culminating Workshop, EPFL, Switzerland

## Supervision Duties

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Semester Projects.....

- *Teresa Heiss*  
Project: *Additivity of  $Z_2$ -genus*, Spring 2018

- *Robin Dupuis*  
Project: *Crossing number of graphs and some related parameters*, Fall 2012
- *Igor Malinović*  
Project: *Hanani-Tutte and 3-clustered cycle*, Fall 2012
- *Aleksandar Markovic*  
Project: *Crossing numbers of graphs*, Spring 2011
- *Slobodan Mitrović*  
Project: *Homometric sets in trees*, Fall 2010
- *Nouredine Hussain*  
Project: *Expander graphs*, Fall 2010

## Master Thesis.....

- *Slobodan Mitrović*  
Project: *Metric problems on graphs*, Fall 2012  
**The first price at IEEE Region 8 Student Paper Contest 2014**

## Teaching Experience

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- **Lecturer**  
*UC San Diego* *July 2020–*  
Undergraduate Level Classes: Calculus, Mathematical Analysis, Probability, Applicable Mathematics and Computing
- **Lecturer**  
*University of Arizona* *February 2020–May 2020*  
Theory of Computation
- **Lecturer**  
*IST Austria* *April 2018–June 2018*  
Graduate level class on Geometric Representations of Graphs
- **Lecturer**  
*IST Austria* *October 2016–December 2016*  
Graduate level class on Topological Methods in Discrete Mathematics and Computer Science
- **Lecturer**  
*Columbia University* *January 2014–May 2014*  
Graduate level class on Geometric and Topological Graphs
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2012–December 2012*  
Undergraduate level class on Combinatorial Optimization
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *February 2012–May 2012*  
Undergraduate level class on Discrete Optimization
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2011–December 2011*  
Undergraduate level class: Geometry and Mathematics for Architects
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *February 2011–May 2011*

- Undergraduate level class on Linear Algebra
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2010–December 2010*  
 Undergraduate level class: Geometry and Mathematics for Architects
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *February 2010–May 2010*  
 Undergraduate level class on Graph Theory
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *February 2010–May 2010*  
 Undergraduate level class on Linear Algebra
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2009–December 2009*  
 Undergraduate level class: Geometry and Mathematics for Architects
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *February 2009–May 2009*  
 Undergraduate level class on Graph Theory
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2008–December 2008*  
 Undergraduate level class on Linear Algebra
- **Teaching Assistant**  
*École Polytechnique Fédérale de Lausanne* *September 2008–December 2008*  
 Undergraduate level class on Discrete Mathematics
- **Teaching assistant**  
*Simon Fraser University* *September 2006–June 2008*  
 Introduction to Computing Science/Programming, Database Systems

## Non-Academic Work Experience

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- **Toptal** **remotely**  
*software developer* *July 2021–*
- **Isomi a.s.** **Bratislava, Slovakia**  
*software developer* *June 2005–August 2006*
- **Isomi a.s.** **Bratislava, Slovakia**  
*software developer* *August 2004–December 2004*

## Professional Skills

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- **Programming Languages:** C++, C#, Java, Kotlin, Javascript, Pascal, Python, LaTeX

## Language Skills

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- *Slovak (native), English (fluent), French (passive), German (passive)*

## References

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*Prof. János Pach*

Alfréd Rényi Institute of Math. E-mail: pachjanos@gmail.com  
Hungarian Academy of Sciences  
Reáltanoda utca 13-15  
Budapest, Hungary

*Prof. Gábor Tardos*

Alfréd Rényi Institute of Math. E-mail: tardosgabor@gmail.com  
Hungarian Academy of Sciences  
Reáltanoda utca 13-15  
Budapest, Hungary

*Prof. Csaba D. Tóth*

California State University E-mail: csaba.toth@csun.edu  
Room SN 434, 18111 Nordhoff St.  
Northridge, CA, USA

*Prof. Maria Chudnovsky*

Princeton University E-mail: mchudnov@math.princeton.edu  
211 Fine Hall  
Princeton, NJ, USA

*Prof. Uli Wagner*

IST Austria E-mail: uli@ist.ac.at  
Am Campus 1  
Klosterneuburg, Austria

*Prof. Marcus Schaefer*

DePaul University E-mail: mschaefer@cdm.depaul.edu  
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Chicago, IL, USA

*Prof. Andrew Suk*

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