

# CURRICULUM VITAE

## Zoltán Vidnyánszky

✉ *California Institute of Technology*  
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### PERSONAL DATA

Birth date November 19, 1989, Kiev, Ukraine  
Marital status Married, two children  
Citizenship Hungary

### EMPLOYMENT

2020– Olga Tausky-John Todd Instructor, California Institute of Technology  
*Supervisor: Alexander S. Kechris*  
2019–2020 Principal investigator, Lise Meitner FWF Grant, University of Vienna  
*Co-applicant: Benjamin D. Miller*  
2017–2019 Postdoc, Kurt Gödel Research Center, University of Vienna  
*Supervisor: Benjamin D. Miller*  
2016–2017 Postdoctoral Visitor at York University and University of Toronto  
*Supervisors: Juris Steprāns, Stevo Todorčević, and William Weiss*  
2014–2016 Junior Research Fellow at Alfréd Rényi Institute of Mathematics

### EDUCATION

2015 PhD at Eötvös Loránd University, Budapest  
*Summa Cum Laude, thesis advisor: Márton Elekes*  
2009–2011 MSc in Pure Mathematics at Eötvös Loránd University, Budapest  
*Honors degree, thesis advisor: Márton Elekes*  
2006–2009 BSc in Mathematics at Eötvös Loránd University, Budapest  
*Pure mathematics major, thesis advisor: Péter Komjáth*  
1999–2006 Hungarian Secondary Grammar School, Beregovo, Ukraine

### PUBLICATIONS

25 papers (19 accepted)

#### *Five most important papers*

1. S. Todorčević, Z. Vidnyánszky, A complexity problem for Borel graphs, *Invent. Math.*, **226** (2021), 225–249.  
<https://arxiv.org/abs/1710.05079>
2. S. Brandt, Y. Chang, J. Grebík, C. Grunau, V. Rozhoň, Z. Vidnyánszky, On homomorphism graphs, submitted.  
<https://arxiv.org/abs/2111.03683>
3. R. Carroy, B. D. Miller, D. Schritterser, Z. Vidnyánszky, Minimal definable graphs of definable chromatic number at least three, *Forum of Math. Sigma*, **9** (2021) e7.  
<https://arxiv.org/pdf/1906.08373>

4. M. Elekes, Z. Vidnyánszky, Characterization of order types of pointwise linearly ordered families of Baire class 1 functions, *Adv. Math.* **307** (2017), 559–597.  
<http://arxiv.org/abs/1410.8362>
5. V. Kiss, M. Elekes, Z. Vidnyánszky, Ranks on the Baire class  $\xi$  functions, *Trans. Amer. Math. Soc.* **368** (2016), no. 11, 8111–8143.  
<http://arxiv.org/abs/1406.5724>

#### INVITED CONFERENCE TALKS

2021	16th Luminy workshop in set theory
2020	Winter meeting of the Canadian Mathematical Society
2020	Hamburg Set Theory Workshop
2019	Young Set Theory Workshop <i>One of the four postdoc speakers</i>
2018	Ideals and exceptional sets in Polish spaces <i>Bernoulli Center, Lausanne</i>
2018	South Eastern Logic Symposium <i>University of Florida</i>
2014, 2015	Descriptive Set Theory in Paris <i>UPMC, Paris</i>

#### AWARDS AND FELLOWSHIPS

2018	Pál Turán Memorial Prize of the Hungarian Academy of Sciences <i>Awarded annually to a mathematician under forty</i>
2016	Géza Grünwald Prize of the Bolyai Mathematical Society <i>Awarded annually to five mathematicians under thirty</i>
2016	International Stefan Banach Prize, Nominee (in the top five) <i>Awarded by the Polish Mathematical Society for the best dissertation</i>
2010–11	Scholarship of the Ministry of Education of the Hungarian Republic
2009	Excellent student of the faculty <i>Faculty of Science, Eötvös Loránd University</i>
2005	Third Prize in the Ukrainian Mathematical Olympiad (11th place)
2004, 2006	First Prize in the International Hungarian Mathematics Competition (2nd and 5th place)

#### PROFESSIONAL SERVICE

##### *Memberships*

Bolyai János Mathematical Society  
European Set Theory Society

##### *Peer review*

Refereeing for *Advances in Mathematics*, *Forum of Mathematics Pi*, *Israel Journal of Mathematics*, *Journal of Mathematical Logic*, *Fundamenta Mathematicae*, *Dissertationes Mathematicae*, *Journal of Symbolic Logic*, *Proceedings of the American Mathematical Society*, *Combinatorica*

Reviewing proposals for the Czech Academy of Sciences

Reviewing for the AMS

#### LANGUAGE SKILLS

English	fluent
Russian	fluent
Ukrainian	intermediate
German	basic
Hungarian	native

#### TEACHING EXPERIENCE

2022	Math 116a Introduction to Mathematical Logic, Caltech
2021	Math 117b,c Computability, Caltech
2017	Descriptive set theory, Eötvös University
2017	MATH3260 Introduction to Graph Theory, York University
2016	MATH6280 A - Measure Theory, York University
2015	Foundations of Mathematics 2, Eötvös University
2012–2020	Set theory problem solving class, Eötvös University
2010–2016	Calculus: TA, Eötvös University and Budapest University of Technology