

# László Papp

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## Personal

Birth place,date: Budapest, Hungary, 20th September 1988

Citizenship: Hungarian

Nationality: Hungarian

## Education

**Budapest University of Technology and Economics (BME)**, Budapest, Hungary

PhD at Doctoral School of Mathematics and Computer Science, 2014-2022

Thesis: Optimal pebbling number of graphs, Advisor: Gyula Y. Katona

Mathematics MSc, 2010-2013

Diploma with Honours,

Mathematics BSc, 2007-2010

**Czech Technical University in Prague**, Prague, Czech Republic

One week course in Text Searching Algorithms, 2013

**Telecom Paristech**, Paris, France

One week course in Emergencing Complex Systems, 2012

**Universidad Politecnica de Madrid**, Madrid, Spain

One week course in Symbolic Computation, 2012

**Boronkay György Secondary School**, Vác, Hungary, 2003-2007

## Awards

**Scholarship of the Hungarian Republic**, 2012-2013

**Third Prize** BME Scientific Student Conference Faculty of Discrete Mathematics, November 2011

**3rd Place** Hungarian National Competition in Physics, OKTV, 2007

**5th Place** Hungarian National Competition in Mathematics, OKTV, 2007

**Third Prize** International Hungarian Competition in Mathematics, 2007

**4th Place** Hungarian National Competition in Mathematics, OKTV, 2006

**Honourable Mention**, International Hungarian Competition in Mathematics, 2006

## Publications

Katona Gyula Y., László Papp F.: **Upper Bound on the Optimal Pebbling Number in Graphs with Given Minimum Degree.** Proceedings of 9th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications 2015

Ervin Győri, Gyula Y. Katona, László F. Papp: **Optimal Pebbling of Grids** Proceedings of the 9th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications 2015

Gyula Y. Katona , László F. Papp: **The Optimal Rubbling Number of Ladders, Prisms and Möbius-ladders** *Discrete Applied Mathematics* 209 (2016) pp. 227–246

Ervin Győri, Gyula Y. Katona, László F. Papp: **Constructions for the Optimal Pebbling of Grids** *Periodica Polytechnica Electrical Engineering and Computer Science* 61 No 2 (2017) pp. 217–223

Ervin Győri, Gyula Y. Katona, László F. Papp, Casey Tompkins: **The Optimal Pebbling Number of Staircase Graphs** *Discrete Mathematics*, 342 (2019) pp. 2148–2157

Ervin Győri, Gyula Y. Katona, László F. Papp: **Optimal pebbling and rubbling of graphs with given diameter** Proceedings of the 10th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications 2015

Ervin Győri, Gyula Y. Katona, László F. Papp: **Optimal pebbling and rubbling of graphs with given diameter** *Discrete Applied Mathematics*, 266 (2019) pp. 340–345

Andrzej Czygrinow, Glenn Hurlbert, Gyula Y. Katona, László F. Papp: **Optimal pebbling number of graphs with given minimum degree** *Discrete Applied Mathematics*, 260 (2019) pp. 117–130

Ervin Győri, Gyula Y. Katona, László F. Papp: **Optimal pebbling number of the square grid** *Graphs and Combinatorics*, 36 (2000) pp. 803–829.

László F. Papp: **Restricted optimal pebbling is NP-hard** Proceedings of the 11th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications 2019

## Conference talks

*Upper Bound on the Optimal Pebbling Number in Graphs with Given Minimum Degree,*  
The 9th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications  
Fukuoka, Japan, 5 June 2015

*Optimal Pebbling Number of Grids,*  
24th Workshop on Cycles and Colourings  
Novy Smokovec, Slovakia, 8 September 2015

*Optimal pebbling and rubbling of graphs with given diameter,*  
The 10th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications  
Budapest, Hungary, 25 May 2017

*Optimal pebbling and rubbling of graphs with given diameter,*  
The Second Malta Conference in Graph Theory and Combinatorics  
Qawra, Malta, 29 June 2017

*Optimal pebbling number of grids,*  
SIAM Conference on Discrete Mathematics  
Denver, USA, 7 June 2018

*Restricted optimal pebbling is NP-hard*, The 10th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications  
Tokyo, Japan, 29 May 2019

## Posters

*Optimal pebbling number* São Paulo School of Advanced Science on Algorithms, Combinatorics and Optimization, São Paulo, Brasil, 2016

*Complexity of the restricted optimal pebbling number* Building Bridges II Conference, Budapest, Hungary, 2018

## Employment

**Optasoft Ltd.** Software and model developer, fall 2013- spring 2014.

**Budapest University of Technology and Economics, Department of Computer Science and Information Theory**, Assistant lecturer, fall 2017-2022 fall

**Budapest University of Technology and Economics, Department of Computer Science and Information Theory**, Senior lecturer, fall 2022 fall-

## Teaching Experience

**Department of Computer Science and Information Theory Budapest University of Technology and Economics, Hungary,**  
Fall 2014-present

Practice courses in Hungarian: Theory of Algorithms, Introduction to the Theory of Computing 1, Foundation of Computer Science and Probability Theory

Courses in English: Combinatorial Optimization for Electric Engineers

**Department of Algebra Budapest University of Technology and Economics, Hungary,**  
Fall 2009- Fall 2011

Correcting and marking homework for courses Higher Mathematics, Algebra 1 and Linear Algebra

## Other

**Language skills:** Hungarian (native), English (upper-intermediate), Spanish (intermediate)

**Computer skills:** Matlab, Mathematica, AIMMS, SQL, Latex, C, Windows and Linux

**Driving license:** category A (Motorbike), category B (Automobile)