

**Edin Lidan**

Faculty of Pedagogy  
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E-mail: edin.lidan@unbi.ba  
Citizenship: Bosnia and Herzegovina  
Date of birth: 15th of December, 1986

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**Employment**

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2013 – present Senior teaching Assistant, University of Bihac, Bihac, Bosnia and Herzegovina  
2010 – 2013 Research Assistant, University of Bihac, Bihac, Bosnia and Herzegovina  
2009 – 2010 high school professor at „Second High School“ in Cazin

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**Education**

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2015- present PhD Student in Mathematics, University of Montenegro, Podgorica, Montenegro, PhD thesis „Topological characteristics of generalized polyomino tiling“, PhD thesis adviser, Đorđe Baralić, Mathematical Institute SASA, Belgrade Serbia  
2009-2013 MSc in Mathematics and Computer Science, University of Zenica, Bosnia and Herzegovina  
2005-2009 BSc in Mathematics and Computer Science, University of Bihac, Bosnia and Herzegovina

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**Research Interests**

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Combinatorics, algebra, topology, toric topology, geometric combinatorics, combinatorial algebraic geometry, geometric topology, algebraic topology

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**Publications**

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1. **E. Lidan**, Đ. Baralic, *Homology of polyomino tilings of surface* (to appear)
2. **E. Lidan**, *Lindstrom – Gessel – Viennot theorem as a common point of linear algebra and combinatorics*. Proceedings of the 2nd Croatian Combinatorial Days, Zagreb, Septembar 27 – 28, 2018.
3. K. Pjanić, **E. Lidan**, A. Kurtanović, *Visualization of relationship between a function and its derivative*, *Eğitim Bilimleri Araştırmaları Dergisi - Journal of Educational Sciences Research*, 5 (1) (2015), 205 – 213.

4. K. Pjanić, **E. Liđan**, *One usage of geogebra in enhancing pre-service mathematics teachers' content knowledge*. Turkish Journal of Computer and Mathematics Education, 6(1) (2015), 18 - 30.

### **Books:**

K. Pjanić, E. Liđan, *Osnove matematike*, Univerzitetski udžbenik, Bihać, 2016. (eng: Elementary mathematics, University textbook, Bihać, 2016.)

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### Grants

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E. Liđan, Topological characteristics of tilings on surfaces with polyominoes, 7th Heidelberg Laureate Forum, Septembar 22 – 28, Heidelberg 2019 – grant by Heidelberg Laureate Forum

E. Liđan, Workshop on Aperiodicity and Hierarchical structures in tilings, September 25 -29, Lyon 2017 – grant by organisers

E. Liđan, Research school on Aperiodicity and Hierarchical structures in tilings, September 18 -22, Lyon 2017 – grants for travel on Research school by organisers

E. Liđan, 7th European Congress of Mathematics, July 18 – 22, Berlin 2016. – grant by European mathematical society

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### Congresses, Conferences, Workshop and Visits

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#### **Congress:**

E. Liđan, 7th European Congress of Mathematics, July 18 – 22, Berlin 2016. – grant by European mathematical society

#### **Workshop:**

Workshop on Aperiodicity and Hierarchical structures in tilings, Lyon (Francuska)

#### **Participations at conferences and seminars:**

E. Liđan, *Homology groups in function of polyomino tilings of two dimensional manifolds*, Seminar in combinatorics and discrete mathematics, Zagreb, December 13, 2018

E. Liđan, Homology groups of generalized polyomino type tilings, 2nd Croatian Combinatorial Days, Zagreb (Croatia), September 27-28, 2018

E. Liđan, LGV theorem, Scientific colloquium Faculty of Science and Mathematics, Podgorica (Montenegro) July 10, 2018

E. Liđan, *Homology group of generalized polyomino type tilings*, 1<sup>st</sup> Annual Meeting of Seminar for Topology of Configuration Spaces, MI SANU, Belgrade, December 2017

E. Liđan, *Homology group of generalized polyomino type tilings*, Research school on Aperiodicity and Hierarchical structures in tilings, 18-22 September 2017, University in Lyon (ENS de Lyon), Lyon (France)

Đ. Baralić, E. Liđan, *Poliomino tillings*, State Seminar for teachers of mathematics and informatics in Serbia, Association of Mathematicians in Serbia, Belgrade, February 11, 2017 and February 12, 2017

E. Liđan, *Classification of Surface*, Summer camp for mathematicians in Serbia (additional education in mathematics for student contestants), Naučna stanica – Petnica, Serbia, July 1, 2016

E. Liđan, *Application of GeoGebra in the teaching of mathematics*, Lecture for students of the second study cycle at the Department of Mathematics and Informatics and teachers of mathematics in schools of the Una-Sana Canton, Association of mathematicians of the Una-Sana Canton, Bihać, October 17, 2015

#### **Participations at conferences in mathematical education:**

K. Pjanić, E. Liđan, *Evaluation of Visual Models for the Greatest Common Factor and the Least Common Multiple*, 7th International Conference for Theory and Practice in Education, Budapest, June 25 – 27, 2015.

K. Pjanić, E. Liđan, *Graphical representations in teaching GCF and LCM*, Book of the Abstract of the 5th International Scientific Colloquium Mathematics and Children, Osijek, May 29 – 30, 2015.

K. Pjanić, E. Liđan, A. Kurtanović, *Visualization of relationship between a function and its derivative*, 8th ICITS International Computer & Instructional Technologies Symposium, Trakya University Edirne, September 18 – 20, 2014.

K. Pjanić, E. Liđan, *One usage of geogebra in enhancing pre-service mathematics teachers' content knowledge*. 8th ICITS International Computer & Instructional Technologies Symposium, Trakya University Edirne, September 18 – 20, 2014.

#### **Organisations of mathematical events:**

- „Mathematics Day at the Una-Sana Canton“

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#### Memberships

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- Society Triangl
- Una - Sana Mathematical Society

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#### Languages

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Bosnian, English