Curriculum Vitæ

Personal data

Name	Łukasz Kowalik
Affiliation	Institute of Informatics, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw
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Education and degrees

2020	Title of professor
2011	Habilitation Degree, University of Warsaw
2005	Ph.D. in Computer Science, University of Warsaw Ph.D. Thesis *Algorithmic Path Problems in Planar Graphs* (advisor: Krzysztof Diks)
1996 – 2001	M.Sc. in Computer Science, University of Warsaw M.Sc. Thesis *Three-coloring Planar Graphs* (advisor: Krzysztof Diks)
1996 – 1999	B.Sc. in Mathematics, University of Warsaw
1992 – 1996	II LO im. Stefana Batorego, Warsaw

Positions and long-term stays

2020 –	University of Warsaw, full professor (profesor)
2012 – 2020	University of Warsaw, associate professor (prof. nadzwyczajny)
2005 – 2012	University of Warsaw, assistant professor (adiunkt)
2005 – 2006	Max-Planck Institut für Informatik, Saarbrücken, postdoctoral researcher
2003	Marie-Curie Fellowship, BRICS, Aarhus University, Denmark.

Awards and Funding

Selected Awards and Scholarships:

Sep 2017	Best Paper Award, 25th European Symposium on Algorithms
Nov 2014	Nagroda MNiSW za osiągnięcia w opiece naukowej i dydaktycznej
2011-2014	Scholarship for outstanding young scientists (MNiSW)
Jun 2007	Witold Lipski Prize for Young Researchers in Computer Science

Research grants:

2014–2017	Grant of National Science Centre *Current trends in parameterized and exponential-time algorithms*, **principal investigator**
2011–2014	Grant of National Science Centre *Parameterized complexity and exponential-time algorithms*, **principal investigator**
2009–2010	Polish-Slovenian bilateral project *Partitions and structures of graphs*, **coordinator**
2008–2009	Polish-Slovenian bilateral project *Graph colorings and their applications*, **coordinator**
2007–2009	Grant of Ministry of Science and Higher Education *New techniques in graph algorithms: exact algorithms for NP-hard problems, sparse graphs and their applications*, **principal investigator**
2005	PhD Grant of Ministry of Science and Higher Education, *Algorithmic path problems in planar graphs*

Service

PC and editorial service

- Program committee chair of WG 2021.
- Program committee member of MFCS 2021.
- Program committee chair of PACE 2020 (an algorithm engineering competition).
- Program committee member of IPEC 2020.
- Program committee member of EUROCOMB 2020.
- Program committee member of WG 2020.
- Program committee member of MFCS 2020.
- Program committee member of ESA 2018.
- Managing Editor in Information Processing Letters (from November 2017 to June 2019)
- Editor in Information Processing Letters (2010-2016); Associate editor from 2019
- Program committee member of MEMICS 2014, 2015.
- Program committee member of MFCS 2011.
- Reviewer for conferences DISC, ESA, FCT, FSTTCS, ICALP, IPEC, MFCS, PODS, SIROCCO, SODA, STOC, STACS, SWAT, WADS.
- Reviewer for journals Algorithmica, Ars Combinatoria, ACM Transactions on Algorithms, Applied Mathematics Letters, Discrete Applied Mathematics, Discrete Mathematics, Fundamenta Informaticae, Graphs and Combinatorics, Information Processing Letters, Journal of Combinatorial Mathematics and Combinatorial Computing, Journal of Discrete Algorithms, Journal of Graph Theory, Optimization Letters, Theoretical Computer Science.

Invited talks (selected)

- *Algebraic methods in parameterized graph algorithms*, Bordeaux Graph Workshop, 2019.

- *Finding long paths by evaluating a polynomial (tutorial)*, Bonn, Workshop *Combinatorial Optimization meets Parameterized Complexity*, 2016

Administration

- Director of Institute of Informatics (2020-2024).
- Vice-director of Institute of Informatics (2016-2020).

Events

2021	organizer of WG 2021 (as an on-line conference).
2020	organizer (chair) of PACE 2020 (an algorithm engineering competition).
2013	organizer of WorKer (Workshop on Kernels)
2006–2012	organizer of „Open Lectures for PhD Students" (Warsaw Univ.)
2004	organizer of "PhD Student Day" (a mini-conference for PhD students)
2002	member of the organizing committee, *27th International Symposium on Mathematical Foundations of Computer Science* (MFCS 2002)

Programming contests

2008–2009	Polish Olympiad in Informatics (chair of the local committee in Warsaw)
2001–2006	Polish Olympiad in Informatics (jury member, author of tasks)
2005	International Olympiad in Informatics (Host Scientific Committee member)
2004	Central-European Olympiad in Informatics (jury member)
2003, 2004	ACM Central European Programming Contest (jury member)

Publications (as of Sept 2021)

- a textbook *Parameterized Algorithms*, with Marek Cygan, Fedor V. Fomin, Daniel Lokshtanov, Dániel Marx, Marcin Pilipczuk, Michał Pilipczuk, Saket Saurabh, Springer 2015.
- 29 journal articles, including ACM Trans. Algorithms, SIAM J. Discr. Math., J. Artif. Intell. Res.
- 34 conference articles, including STOC, SODA, ICALP, ESA.

The complete list of publications can be found at DBLP.

Advising and Teaching

PhD advisor: Marek Cygan (2012), Marcin Pilipczuk (2012), Arkadiusz Socała (2017), Konrad Majewski (ongoing).

M.Sc. advisor: Piotr Ambroszczyk (2021), Konrad Majewski (2020), Kamil Żyła (2019), Katarzyna Zalewska (2017), Katarzyna Jabłonowska (2016), Arkadiusz Socała (2014), Mateusz Baranowski (2013), Michał Pilipczuk (2013), Piotr Kufel (2012), Michał Pachucki (2011), Łukasz Bieniasz-Krzywiec (2010), Piotr Cerobski (2010), Mateusz Wykurz (2008), Marek Cygan (2008), Marcin Pilipczuk (2008).

Lecturer (summer schools, longer tutorials, etc.):

2017 *Introduction to Parametrized Algorithms* (1-day course for Gdańsk Summer School of Advanced Science on Algorithms for Discrete Optimization), Gdańsk Technical University.

2015 *FPT and exponential algorithms* (2-day course for PhD students), University of Wrocław.

2013 *Algebraic techniques in parameterized complexity*, School on parameterized algorithms and complexity, Będlewo.

2013 *Algebraic approach to exact algorithms*, ADFOCS 2014, MPI Saarbruecken.

2012 *Algebraic approach to exact algorithms*, tutorial at PCC 2012.

2010 *Exact Algorithms for NP-hard problems*, tutorial at PhD Open, Warsaw.

Lecturer (full semester courses at University of Warsaw):

yearly from 2007 *Algorithmics*

2019 *Parameterized algorithms*

2013 *Algorithmic tools*

2010 *Probabilistic methods in algorithms*

2007 *Approximation Algorithms*

2007 *Analysis of Algorithms*

2006 *Advanced Data Structures*

2001, 2003, 2004 *Algortithms and Data Structures*, Postgraduate course for teachers

Popular Science

2021 Lecture *Po co programiście chaos?*, Maraton wykładowy Delty

2020 Popular article *Problem komiwojażera w praktyce*, Delta, 2 / 2020.
Lecture *Problem komiwojażera w praktyce*, Staszic High School summer camp.

2019 Lecture *Problem komiwojażera*, Festival of Science.

2018 Popular article *Problem izomorfizmu grafów*, Delta, 12 / 2018.

2017 Lecture *Wstęp do aproksymacji*, Workshop of National Children's Fund.

2016 Lecture *Drzewa Gomory-Hu*, Workshop of National Children's Fund.

2014 Lecture *O problemie komiwojażera*, Festival of Science.
Lecture *Haszowanie*, Workshop of National Children's Fund.

2013 Lecture *O problemie k-ścieżki*, Workshop of National Children's Fund.
Popular article *Programy liniowe, gry i algorytmy*, Delta, 8 / 2013.

2012 Lecture *Drzewa Gomory-Hu*, Workshop of National Children's Fund.

2010 Lecture *Czy można programować w języku układów równań liniowych?*, Festival of Science.
Lecture *Problem Lasu Steinera*, Workshop of National Children's Fund.

2009 Lecture *Złożoność parametryzowana*, Workshop of National Children's Fund.

2008 Popular article *O notacji asymptotycznej w analizie algorytmów*, Delta, 1 / 2008, str. 4-5.

2006 Lecture *Jak trudne są problemy NP-trudne?*, Workshop of National Children's Fund.

2005 Lecture *Siedem cudów informatyki*, Festival of Science.

Lecture *Grafowe twierdzenie o minorach: porządkowanie grafów*, Grzegorzewice 29.08.2005, XXXV Szkoła Matematyki Poglądowej „Porządek".

2004 Lecture *Derandomizacja alorytmów*, XXXIII Szkoła Matematyki Poglądowej, Grzegorzewice.

2002 Popular article *Spacery po mostach i przejażdżki po mieście*, Software 2.0, 7 / 2002.