

Maciej Gałązka

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Education:

- Oct 2009 – Sep 2012, University of Warsaw, Bachelor's Degree in Mathematics, Bachelor thesis in Polish: <http://students.mimuw.edu.pl/~mg292610/praca.pdf>
- Oct 2012 – Sep 2014, University of Warsaw, Master Degree in Mathematics, Advisor: Jarosław Buczyński, Master thesis: <http://students.mimuw.edu.pl/~mg292610/pracamgr.pdf>
- Oct 2014 – Sep 2017, Oct 2018 – now, University of Warsaw, Phd Studies in Mathematics, Advisor: Jarosław Buczyński

Publications and preprints:

- Maciej Gałązka. Vector bundles give equations of cactus varieties. *Linear Algebra and its Applications*, 521(Supplement C):254 – 262, 2017.
- Maciej Gałązka. Multigraded apolarity. [arXiv:1601.06211](https://arxiv.org/abs/1601.06211) [math.AG], to appear in *Mathematische Nachrichten*
- Maciej Gałązka, Filip Rupniewski, Tomasz Mańdziuk, Distinguishing secant from cactus varieties, [arXiv:2007.16203](https://arxiv.org/abs/2007.16203) [math.AG]

Research talks:

- 27 May 2017, *Equations of secant varieties*, MIMUW algebraic geometry seminar, University of Warsaw, Poland
- 19 Sep 2018, *Examples of ranks of monomials on toric surfaces*, session Algebraic Geometry and Interdisciplinary Applications, Joint Meeting of the Italian Mathematical Union, the Italian Society for Industrial and Applied Mathematics, and the Polish Mathematical Society, Wrocław, Poland
- 17 Sep 2020, *Distinguishing secant from cactus varieties*, Algebra, Algebraic Geometry and

Number Theory Session, DMV Annual Meeting, online

- 24 Jun 2021, *Distinguishing secant from cactus varieties*, GO60 - Pure & Applied Algebraic Geometry, online

Organization of conferences:

- 18 Apr – 18 Jun 2016, *miniPages – Polish Algebraic Geometry minisemester*, technical organizer
- 13 – 17 Sep 2021, *43rd Autumn School K3 categories and hyperkähler moduli spaces*, technical organizer of a local working group in Warsaw
- 11 – 15 Oct 2021, *miniworkshop Tensor Days*, organizer

Scientific Projects:

- “Secant varieties, computational complexity, and toric degenerations” project realised within the Homing Plus programme of Foundation for Polish Science, cofinanced from European Union, Regional Development Fund.
<http://www.mimuw.edu.pl/~jabu/projects/homing/homing.html>
- “Algebraic Geometry: varieties and structures”, Polish National Science Center project (2014-2018)
- „Complex contact manifolds and geometry of secants”, Polish National Science Center project (2018-2023)

Fellowships:

- Oct 2014 – Sep 2015 WCMCS Fellowship