CURRICULUM VITAE

MICHAŁ KAPUSTKA

PERSONAL DATA

EMPLOYMENT HISTORY

2007 - 2010	**Assistant**	Uniwersytet Jagielloński
2009 - 2010	**Postdoc**	Universitetet i Oslo
2010 - 2019	**Assistant Professor**	Uniwersytet Jagielloński
2010 - 2014	**Assistant, Postdoc**	Universität Zürich
2015 - 2021	**Førstamanuensis**	Universitetet i Stavanger
2017 - 2018	**Assistant Professor**	Instytut Matematyczny Polskiej Akademii Nauk
2018 - ...	**Associate Professor**	Instytut Matematyczny Polskiej Akademii Nauk

DEGREES

02.2018	**Habilitation** Jagiellonian University Thesis: Calabi–Yau threefolds and Mukai varieties
05.2014	**Privat docent** in algebraic geometry, University of Zürich Habilitation thesis: *Mukai varieties and Calabi-Yau threefolds*
09.2007	**Doctoral degree** (dr. scient.) in mathematics, Jagiellonian university in Kraków PhD thesis: *Arithmetic and geometric properties of some Calabi-Yau threefolds* Advisor: Sławomir Cynk
06.2003	**Master degree** (cand. scient.) in mathematics, Jagiellonian University Master thesis: *"Systemy liniowe na powierzchniach K3" (Linear systems on K3 surfaces)* Advisor: Tomasz Szemberg

AWARDS AND SCHOLARSHIPS

2003	F. Leja Award for best student at the Jagiellonian University
2006	IMPAN scholarship
2008	M. J. Łysek Award for best young mathematician at the Jagiellonian University
2010	PTM award for young mathematicians
2015	Scholarship of the Polish Ministry of Science and Higher Education for outstanding young scientists

GRANTS

2009 - 2010	Holder of the grant "The geometry of Calabi-Yau manifolds", founded by the countries of the European Economic Area through the program EEA Grants

2009 - 2011   Investigator in the research grant "Osobliwe rozmaitosci Calabi-Yau, ich deformacje oraz wlasnosci arytmetyczne" (Singular Calabi-Yau threefolds, their deformations and arithmetic properties), founded by the Polish Ministry of Science and Higher Education

2010 - 2013   Main investigator in the research grant "Konstrukcje rozmaitosci za pomoca wiazek" (Constructing varieties using vector bundles), founded by the Polish Ministry of Science and Higher Education

2011   Principal investigator in the grant "Deformations of algebraic varieties", founded by the Polish Ministry of Science and Higher Education through the program Iuventus plus

2010 - 2013   Postdoc in the grant "Gauge theory and complex geometry" founded by the Swiss National Science Foundation

2013 - 2014   Holder of the grant "Mukai varieties, Calabi-Yau threefolds, and Hyperkähler fourfolds" founded by the Forschungskredit of the University of Zürich

2014 - 2019   Project manager in the grant "Varieties with trivial first Chern class" founded by the Polish National Science Center under the scheme SONATA BIS.

2019 - 2023   Holder of the grant "Calabi–Yau type manifolds" founded by the Polish National Science Center under the scheme OPUS..

2022 - 2026   Holder of the grant "Calabi–Yau manifolds and Gorenstein rings" for a PhD position founded by the Polish National Science Center under the scheme Preludium Bis.

Talks

Conference and research seminar talks:

2001 – 2021   The IMPANGA seminar in Warsaw
Talks: "Powierzchnie log del Pezzo indeksu 2" (Log del Pezzo surfaces of index 2)
"Arithmetic and geometric properties of some Calabi-Yau threefolds"
"A cascade of determinantal Calabi-Yau threefolds"
"Geometric transitions between Calabi-Yau threefolds"
"Mukai varieties and dual K3 surfaces"
"Calabi-Yau threefolds in $\mathbb{P}^6$"
"Mirror symmetry for determinantal Calabi–Yau threefolds"
"$K3^{[2]}$ type IHS fourfolds with automorphisms "
"Equivalent Calabi–Yau manifolds"
"Periods of EPW cubes"

2002 - 2018   IMPANGA schools of the Polish Academy of Sciences
Talk: "Extensions Biextensions and Duality", at the school "Symplectic geometry"
Talk: "The two point Hilbert schemes of K3 surfaces of genus 10", at the school "Hyperkähler manifolds"

2002   Conference "Linear systems" in Bedlewo
Talk: "Seshadri constants on del Pezzo surfaces"

2004 - 2005   COW and Calf seminars in England
Talks at Calf: "Linear systems on K3 surfaces" and "Singular del Pezzo surfaces"

2005   Seminar of the University of Warsaw
Talk: "Geometria osobliwych powierzchni del Pezzo" (The geometry of singular del Pezzo surfaces)

2005   Conference Recent Advances in Algebraic Geometry in Kraków
Talk: "Singular del Pezzo surfaces"

2005   Colloquium talk for postgraduate students at the Polish Academy of Sciences:

	Talk: "Powierzchnie del Pezzo" (Del Pezzo surfaces)
2008	Oberseminar in Algebraic Geometry at the University of Duisburg-Essen
	Talk: "Fiber products of elliptic surfaces with section and associated Kummer fibrations"
2008	Seminar in Arithmetic Geometry at the University of Poznań
	Talk: "Modularity of fiber products of elliptic surfaces"
2009	Seminar in Algebraic Geometry at the University of Freiburg
	Talk: "Del Pezzo surfaces, unprojections and Calabi-Yau threefolds"
2010	Forum of Polish Mathematicians in Olsztyn
	Plenary talk: "Calabi-Yau threefolds"
2010	Oberseminar in Algebraic Geometry at the University of Zürich
	Talk: "Mukai varieties and dual K3 surfaces"
2011	Workshop "Calabi-Yau manifolds and mirror symmetry" in Milan
	Talk: "Unprojections and Calabi-Yau threefolds"
2013	Seminar in Algebraic Geometry at the Jagiellonian University in Kraków
	Talk: "Calabi-Yau threefolds in $\mathbb{P}^6$"
2014	Workshop "Workshop on Calabi-Yau Manifolds, Mirror Symmetry and Related Topics" at the University of Tokyo:
	Talk: Calabi-Yau threefolds in $\mathbb{P}^6$
2014	PTM DMV meeting, Algebraic geometry session, in Poznań
	Talk: Calabi-Yau threefolds in $\mathbb{P}^6$
2014	Seminar in algebraic geometry at the university of Hannover
	Talk: EPW cubes
2014-2015	Oberseminar in Algebraic Geometry at the University of Zürich
	Talks: EPW cubes, CalabiYau threefolds in $\mathbb{P}^7$
2015	Conference "Hyper-Kaehler Manifolds and Related Structures in Algebraic and Differential Geometry", Levico Terme
	Talk: Incident planes and hyperkähler fourfolds
2016	Conference Mediterranean Complex Projective Geometry, Carry le Rouet
	Talks: CalabiYau threefolds in small codimension
2016	Seminar of the minipages semester in Warsaw
	Talks: Hyperkähler manifolds
2017	Seminar in algebraic geometry at the University La Sapienza in Rome
	Referat: EPW cubes and their degenerations
2017	Workshop accompanying the Jankowski Lecture in Gdansk
	Talks: Hyperkähler manifolds via Lagrangian degeneracy loci
2017	Konferencja "Japanese-European Symposium on Symplectic Varieties and Moduli Spaces", Levico Terme
	Talk: The last involutions
2018	Seminar in algebraic geometry at the University of Milan
	Talk: Hodge equivalent Calabi-Yau threefolds with GLSM interpretation.
2018	Seminar in algebraic geometry at the University of Bolonia
	Talk: Equivalent Calabi–Yau type manifolds
2018	Norwegian National Mathematicians meeting in Bergen
	Talk: "Equivalence of Calabi–Yau manifolds"
2018	Polish-Italian meeting of mathematicians UMI-SIMAI-PTM, Wrocław
	Talk: "Equivalence of Calabi–Yau manifolds"
2019	Mathematics and String Theory seminar at Kavli IPMU, Tokyo
	Talk: "Equivalent Calabi–Yau manifolds via GLSM"
2019	Algebraic Geometry Days at the University of Stavanger
	Talk: "Birational quadric fibrations from symmetric locally free resolutions"
2019	Jubilee Congress for the 100th anniversary of the Polish Mathematical Society

Talk: "Birational quadric fibrations from symmetric locally free resolutions"
2020   Algebra seminar at the University of Oslo
Talk: "Equivalent Calabi–Yau manifolds via GLSM"
2021   Online mirror symmetry seminar at SISSA Trieste
Talk: "Double mirrors of Calabi-Yau manifolds"
2021   Online algebraic geometry seminar at the University of Nottingham
Talk: "Nikulin orbifolds"
2022   ANR Fano HK thematic Workshop in Toulouse
Talk: "Comparing double EPW sextics with double EPW cubes"

Short research visits:

- 2008 University of Duisburg-Essen
- 2012 Institut Fourier, Grenoble
- 2015 Leibniz University in Hannover
- 2015 University of Zürich
- 2016 University of Zürich
- 2015-2020 University of Oslo
- 2017 University "Sapienza" in Rome
- 2018 Università di Milano
- 2018 Università di Bolognia
- 2019 Gakushuin University Tokyo

SUPERVISION

Students:

- 2008 - 2009 Supervision of master student Paweł Wiklik at the Jagiellonian University
- 2016 - 2020 PhD advisor of Marco Rampazzo at the University of Stavanger,
  PhD thesis: "Equivalences between Calabi–Yau manifolds and roofs of projective bundles".
- 2018 Advisor of master thesis of Anne Synnøve Larsen at the University of Stavanger,
  Master thesis: "The Poncelet Theorem".
- 2021 - 2025 PhD advisor of Andre Mialebama. Subject: Pfaffian Calabi-Yau threefolds
- 2022 - 2026 PhD advisor of Prajwal Samal. Subject: Calabi-Yau manifolds and Gorenstein rings

ASSESSMENT WORK

- Referee for Journal of Algebraic Geometry, Journal of Geometry and Physics, Compositio Mathematica, Advances in Mathematics, Mathematische Nachrichten, Mathematische Zeitschrift, Communications in Contemporary Mathematics, Mathematische Annalen, International Mathematical Research Notices, Symmetry Integrability and Geometry: Methods and Applications, Algebras and Representation Theory, Linear and Multilinear Algebra, Journal of Algebra, Journal of Gokova-Geometry and Topology, Bulletin of the London Mathematical Society, Algebra and Number Theory, Annales Polonici Mathematici, Communications in Mathematical Physics, Journal of Symbolic Computations
- Referee of grant applications at the Polish National Science Center
- Member of assessment panel at the Polish National Science Center 2015-2016, 2017-2018 .

ADMINISTRATION

- Organizer of the workshop: "Projective geometry and syzygies", Warsaw 2015.
- Organizer of the school: "Varieties of Calabi-Yau type" Warsaw 2016.

- Organizer of the workshop: "Periods and Ricci flat manifolds", Warsaw 2017.
- Organizer of the workshop: "Motives of Calabi–Yau type manifolds", Kraków 2018.
- Organizer of the conference: "IMPANGA 20", Bedlewo 2021.
- Organizer of the seminar of the Krakow brach of IMPAN: 2018-2022.
- Organizer of the IMPANGA seminar: 2017-2022.
- Organizer of the Satellite conference of the ICM: "Recent advances in classical algebraic geometry", Kraków 2022.
- Organizer of the conference: The Fourth Killing Weierstrass Colloquim, Gdańsk 2022.