

CURRICULUM VITAE FOR JAROSŁAW WŁODARCZYK

a. Professional Preparation

Undergraduate Institution: Warsaw University 1984-1989, master

Advisor : Prof. Jerzy Jurkiewicz

Graduate Institution: Warsaw University 1989-1993, PhD

Advisor : Prof. Jerzy Jurkiewicz

Postdoctoral Institutions: Ruhr-Universitat, Bochum, Germany 1993-1995,
University of Grenoble, France 1995,

b. Appointments.

2007- Professor at Purdue University

2002-2007 Associate Professor at Purdue University

2000-2002 Visiting Assistant Professor at Purdue University

1996-2002 Associate (Adjunct) Professor at Warsaw University

1993-1996 Assistant Professor at Warsaw University

c. Research interests.

Algebraic Geometry: Birational Geometry , Toric Geometry, Toroidal Geometry, Projective Geometry, Resolution of Singularities.

d. Awards and grants

IMO 1984- silver

Polish Prime-minister award for best PhD-Thesis (1994)

Congress 2006, Madrid, invited speaker.

Institute of Mathematics of Polish Academy of Science Award 2009

NSF grant 2001-2004 (jointly with D.Arapura, K.Matsuki and S.Archava)

NSF grant 2005-2008

NSF grant 2008-2011

NSF grant 2012- 2015

BSF grant 2015-2019 (jointly with D.Abramovich, and M.Temkin)

BSF grant 2019-2023 (jointly with D.Abramovich, and M.Temkin)

BSF grant 2023-2027 (jointly with D.Abramovich, and M.Temkin)

Prof. Pazy Memorial Research Award. 2019

Jubilee Congress of Polish Mathematical Society, 2019, invited speaker

e. Top five publications.

- (1) D. Abramovich , K. Karu , K. Matsuki, J. Włodarczyk, *Torification and factorization of birational maps*, J.Amer. Math. Soc., vol. 15, no 3, 531-572, 2002.

- (2) J. Włodarczyk, *Decomposition of birational toric maps in blow-ups and blow-downs. A proof of the Weak Oda Conjecture*, Trans. AMS **349**, 1997, 373-411.
- (3) J. Włodarczyk, *Birational cobordisms and factorization of birational maps*, J. Alg. Geom. **9** (2000), 425-449
- (4) J. Włodarczyk, *Toroidal varieties and the weak factorization theorem*, Invent. math. 154, 223-231 (2003)
- (5) J. Włodarczyk, *Simple Hironaka resolution in chareacteristic zero.*, J.Amer. Math. Soc., vol. 18, no 4, 779-822, 2005.

f. Collaborators and Other Affiliations

(i) Collaborators:

- Dan Abramovich, Brown University
- Michael Temkin, Hebrew University
- Andre Belotto, Université Paris Cité, UFR de Mathématiques, Institut de Mathématiques de Jussieu-Paris Rive Gauche

g. Recent PhD students:

Andres Figuerola -Phd thesis 2019.

i. Recent research. The main topics of my recent research are: desingularization of algebraic varieties and orbifolds in characteristic zero and p , semistable reduction (resolution of morphisms) and toroidal geometry.