

KRZYSZTOF J. CIOSMAK

St John's College, St Giles', OX1 3JP, Oxford, United Kingdom
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EMPLOYMENT

University of Oxford, Mathematical Institute *2020-present*
Postdoctoral Research Associate
supervised by Prof. Andrea Mondino
funded by the ERC Starting Grant *Optimal transport techniques in the geometric analysis of spaces with curvature bounds*

EDUCATION

University of Oxford, Mathematical Institute, St John's College *2016–2020*
D.Phil. in Mathematics, *Optimal transport and 1-Lipschitz maps*
supervised by Prof. Zhongmin Qian
refereed by Prof. Karl-Theodor Sturm and Prof. Gui-Qian Chen

University of Warsaw, Faculty of Mathematics, Informatics and Mechanics *2012–2015*
Master's Degree in Mathematics
supervised by Prof. Michał Wojciechowski
graduated *summa cum laude*, GPA: 5/5

University of Bonn, Mathematical Institute *10.2012–02.2013*
Erasmus Programme Exchange

University of Warsaw, College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences *2009–2012*
Bachelor's Degree in Mathematics, secondary specialisation in Physics
supervised by Prof. Michał Wojciechowski
graduated *summa cum laude*, GPA: 4,92/5

SCHOLARSHIPS, AWARDS AND HONOURS

Clarendon Scholarship award *2016–2020*
awarded to 0,05% of applicants to the University of Oxford

EPSRC Scholarship *2016–2020*

Warsaw Center of Mathematics and Computer Science Ph.D. Fellowship *2015–2016*
ranked 2nd

Warsaw Center of Mathematics and Computer Sciences Student's Internship *2013–2014*

Scholarship for students of specialties ordered by the Polish government *2009–2015*
repeatedly awarded in recognition of academic excellence, awarded at every semester during Master's and Bachelor's studies

Academic Scholarship *2009–2015*
repeatedly awarded in recognition of academic excellence, awarded at every semester during Master's and Bachelor's studies

15th place of Polish Olympiad in Physics *2009*

1st place laureate of Universal Online Competition for High School Students in Mathematics *2009*
organised by Faculty of Mathematics and Information Science, Warsaw University of Technology

PUBLICATIONS

- K. Ciosmak, Continuity of extensions of Lipschitz maps** 2019
accepted in Israel Journal of Mathematics
<https://arxiv.org/abs/1905.02182>
- K. Ciosmak, Leaves decompositions in Euclidean spaces** 2019
submitted
<https://arxiv.org/abs/1905.02182>
- K. Ciosmak, Optimal transport of vector measures** 2019
submitted
<https://arxiv.org/abs/1905.02182>
- K. Ciosmak, Optimal transport and Choquet theory** 2020
submitted
<https://arxiv.org/abs/2001.11292>
- K. Ciosmak, Differentiable functions on modules and the equation $grad(w) = Mgrad(v)$** 2016
submitted
<https://arxiv.org/abs/1607.05624>
- K. Ciosmak, Divergence formulation of optimal transport of vector measures, matrix Hölder's inequality and applications** 2020
submitted
- K. Ciosmak, Optimal matchings and problem of Alon** 2020
in preparation

TALKS

- Stochastic Analysis Seminar invited talk, IST Austria, Vienna** 6th February 2020
Leaves decompositions in Euclidean spaces
- Analysis Seminar invited talk, SISSA, Trieste** 8th January 2020
Leaves decompositions in Euclidean spaces and optimal transport of vector measures
- 49th Probability Summer School, Saint-Flour** 8th July 2019
Leaves decompositions in Euclidean spaces and optimal transport of vector measures
- Introductory School on Optimal Transport, ESI, Vienna** 6th May 2019
Continuity of extensions of Lipschitz maps
- Conference Harmonic Analysis, Complex Analysis, Spectral Theory and all that, IMPAN, Bedlewo** 4th August 2016
Differentiable functions on modules and the equation $grad(w) = Mgrad(v)$

RESEARCH VISITS

- Thematic Programme on Optimal Transport, ESI, Vienna** May–June 2019
- Research visit, Weizmann Institute of Science, Rehovot** January–February 2018
hosted by Prof. Bo'az Klartag
- Geometric Functional Analysis and Applications, MSRI, Berkeley** August–December 2017
hosted by Prof. Bo'az Klartag

GRANTS AWARDED

- Grant for participating in Thematic Programme on Optimal Transport, ESI, Vienna** 2019
2080 EUR
- Grant for attending Winter School in Calculus of Variations and Probability, CIMI, Toulouse** 2019
1120 EUR
- Travel grants from St John's College, Oxford** 2016–2020
4380 GBP

TEACHING EXPERIENCE

Tutoring for Information Theory, University of Oxford conducting two sets of classes of thirteen students each	2019
Teaching assistance for Information Theory, University of Oxford marking assignments and assistance for a class of eight students	2019
Teaching assistance for Continuous Martingales and Stochastic Calculus, University of Oxford marking assignments and assistance for a class of fifteen students	2017
Tutoring for Calculus, University of Warsaw preparing and conducting a class of fifteen students, marking mid-term and final exams	2016
Teaching Assistance for Probability Theory, University of Warsaw marking assignments for a class of fifteen students	2014

PARTICIPATION AT CONFERENCES AND SCHOOLS

Beyond Spectral Gaps, Oxford	29.09–3.10.2019
49 th Probability Summer School, Saint-Flour	7–19.07.2019
3 rd Warsaw Summer School in Probability, Warsaw	24–28.06.2019
Optimal Transport in Analysis and Probability, ESI, Vienna	3–7.06.2019
Optimal Transport: From Geometry to Numerics, ESI, Vienna	13–17.05.2019
Introductory School on Optimal Transport, ESI, Vienna	6–10.05.2019
Workshop on Optimal Transport and Applications, CIMI, Toulouse	25–29.02.2019
Winter School in Calculus of Variations and Probability, CIMI, Toulouse	11–22.02.2019
Winter School in Abstract Analysis, Svratka	12–19.01.2019
Optimal Transport and Applications, Pisa	12–16.11.2018
Discrete Structures: Harmonic Analysis and Probability, Oxford	27–28.09.2018
Analysis and Probability, Oxford	27–28.09.2018
Introductory Workshop: phenomena in high dimensions, MSRI, Berkeley	21–25.08.2017
Geometric functional analysis and applications, MSRI, Berkeley	13–17.11.2017
Tatras and Mathematics Summer School, Małe Ciche	16–22.08.2016
Harmonic Analysis, Complex Analysis, Spectral Theory and all that, IMPAN, Bedlewo	1–5.08.2016
Modern Applications of Operator Theory, IMPAN, Bedlewo	10–16.04.2016
CNRS-PAN Mathematics Summer Institute, IMPAN, Kraków	1–7.07.2013
Banach Spaces: Geometry and Analysis, Jerusalem	26–31.05.2013
Third A. Pełczyński Spring School in Analysis, IMPAN, Bedlewo	19–23.04.2013
Spring School on Banach Algebras, IMPAN, Bedlewo	29.03–1.04.2012
II Conference of Mathematics Passionates Science Club, Teresin	27–30.10.2011
Tatras and Physics Summer School, Małe Ciche	11–15.09.2011

POPULARISATION PUBLICATIONS

K. Ciosmak, O związkach optymalnego transportu z twierdzeniem o kanapce in Polish, in monthly Delta http://www.deltami.edu.pl	2020
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LANGUAGES

English, fluent
Polish, mother tongue
French, basic
German, basic