Bartłomiej Mariusz Skorulski • Academic Curriculum Vitae

Contact Details

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Professional Experience

2019–present **Senior Data Scientist** *Research Team, Alpha (Telefonica), Barcelona, Spain*

Working on digital phenotyping though data and machine/deep learning.

2006–2013 **Associate Professor** *Universidad Católica del Norte, Antofagasta, Chile*

Taught graduate courses: Hyperbolic Dynamic; Ergodic Theory; Topics on Complex Analysis; Functional Analysis. Taught undergraduate courses: Complex Analysis I and II; Real Analysis; Calculus II; Functional Analysis.

Thesis Supervision: Irene Inoquio (PhD. 2010), Felipe Correa (M.Sc. 2012), Sebastian Sarmiento (M.SC. 2010), Adriana Tapia (M.Sc. 2008), Mery Choque (M.Sc. 2009) Oscar Santamaria (M.Sc., 2007), Francisco Bravo (Bachelor, 2006).

Jan–Aug 2009, Feb–May 2007, Aug–Nov 2003 and more
Visiting Professor *University of North Texas, Denton, USA*

Research, taught undergraduate courses *Probability Models.*

2005–2006 **Postdoctoral Position** *Universidad Católica del Norte*

Taught graduate course on Ergodic Theory.

2018–2019 **Staff Insight Analyst** *Schibsted, Barcelona, Spain*

Schibsted is an international media group that is one of the world's leading online classified ads businesses (leboncoin, subito, finn, blocket, fotocasa, yappo, etc). I mainly work with Messaging Team helping them with: A/B tests and data analysis, NLP models, data pipelines and dashboards. I also work with Experimentation Team helping them with statistical evaluation of AB Tests and with Performance Dashboard Team providing them expertise on tracking, data pipelines and Machine Learning.

I also mentor new Product Analysis and provide training on Data Access and Machine Learning for other teams.

2017–2018 **Senior Data Scientist** *SCRM (Lidl), Barcelona, Spain*

SCRM is a company that has created Lidl Plus program (Lidl's version of loyalty program). I was leading a team that has created and put to production: recommend er system, forecasting tool, that is predicting demand. We also were setting up hypothesis-driven decision-making environment and has been developing A/B Test Tool.

2015–2017 **Data Scientist** *King (Activision/Blizzard), Barcelona, Spain*

I was helping to launch probably the best bubble shooter ever Bubble Witch 3 and working on improving the experience of 300 milions players of King's games. I was translating business needs to technical requirements and AB tests, and then working with development teams to ensure its correct implementation and tracking. I was also developing an analysis strategy and performing analysis of complex scenarios, for example, helping introducing soft currency and assuring its correct balance.

Jun 2017, Jun 2018
Lecturer *Universitat Politècnica de Catalunya, Barcelona, Spain*

Thought "Big Data Management with R" course on MESIO UPC-UB Summer Schools.

May–Aug 2015 **Volunteer** *Oxfam Intermón, Unidad de Monitoreo y evaluación de Campañas, Barcelona, Spain*

Creating web application that analyzes and visualize Oxfam Intermón campaigns on Twitter. It accesses twitter API and stores relevant information in a data base. It provides different statistics together with different visualizations like graph of connections, maps showing where participants come from etc. It exports data to csv, gephi and produces periodic reports in pdf.

Jan- Apr 2015 **SEM Technologist** *Clacktion Barcelona, Spain*

Creating Search Engine Marketing (SEM) campaigns, developing software for reporting, automatic control and creation of large online marketing campaigns.

2013-2014	**Mathematical modelling** *Soluciones de Gestión y Apoyo a Empresas S.L, Zaragoza, Spain* Mathematical modelling in electric engineering, developing applications, writing and typesetting for engineering journal "Soluçoes".
Sep–Nov 2010	**Visiting Professor** *Université Lille 1, France*
Jun–Aug 2007	**Visiting Professor** *Polish Academy of Sciences, Warsaw, Poland*
Apr–Jul 2003	**Marie Curie Scholarship** *University of Warwick, Coventry, UK*
Mar–May 2002	**Research School** *Centro di Ricerca Mathematica, Scuola Normale Superiore, Pisa, Italy.*
2004–2005	**Assistant Professor** *Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland* Research position.
2000–2004	**PhD student** *Warsaw University of Technology, Warsaw, Poland* Taught undergraduate courses: Complex Analiysis (Faculty of Mathematics and Information Science), Mathematics I, Mathematics III (Faculty of Mechatronics), Mathematics I (Faculty of Production Engineering)
1998–2000	**Assistant Professor** *Faculty of Mathematics and Physics, University of Białystok* Taught graduate courses: Functional Analysis I and II, Orders and Numbers. Taught undergraduate courses: Topology, Combinatorics.

Higher Education

2000–2005	*Ph.D. in Mathematics*, Faculty of Mathematics and Information Sciences, Warsaw University of Technology. Thesis: *Metric Properties of the Julia set of some meromorphic functions*; Supervisor: Janina Kotus.
1997–1999	*M.Sc. (Hons) in Mathematics*, Faculty of Mathematics and Physics, University of Bialystok.
1994–1997	*Bachelor's Degree (Hons) in Mathematics,* Faculty of Mathematics and Physics, Warsaw University.

List of Publications

1. Book: *Distance Expanding Random Maps, Thermodynamical Formalism, Gibbs Measures and Fractal Geometry*, Lecture Notes in Mathematics, Springer, 2011. (with V. Mayer and M. Urbański)
2. Finer Fractal Geometry for Analytic Families of Conformal Dynamical Systems, (with M. Urbanski), *Dynamical Systems 29 (2014), 369–398.*
3. Regularity and Irregularity of Fiber Dimensions of Non-Autonomous Dynamical Systems, (with V. Mayer and M. Urbanski), *Annales Academiae Scientiarum Fennicae Mathematica 38 (2013), 489–514..*
4. Dynamical Rigidity of Transcendental Meromorphic Functions, (with M. Urbanski), *Nonlinearity 25 (8)* (2012), 2337–2348.
5. The Law of Iterated Logarithm and Equilibrium Measures Versus Hausdorff Measures for Dynamically semi-Regular Meromorphic Functions, (with M. Urbanski), to apper *"Further Developments in Fractals and Related Fields", in "Trends in Mathematics" of Birkhauser.*
6. Thermodynamic formalism of transcendental entire maps of finite type. *Monatshefte für Mathematik 152*, 2 (2007), 105–123. (with Ion Coiculescu)
7. Perturbations in the Speiser class. *Rocky Mountain Journal of Mathematics 37*, 3 (2007), 763–800. (with Ion Coiculescu)
8. Multifractal analysis for the exponential family. *Discrete Contin. Dyn. Syst. 16*, 4 (2006), 857–869. (with Godofredo Iommi)
9. The existence of conformal measures for some transcendental meromorphic functions. In *Complex Dynamics: Twenty-Fife Years after the Appearance of the Mandelbrot Set*, vol. 396 of *Contemp. Math.* Amer. Math. Soc., Providence, RI, 2006, pp. 169–201.
10. Metric properties of the Julia set of some meromorphic functions with an asymptotic value eventually mapped onto a pole. *Math. Proc. Cambridge Philos. Soc. 139*, 1 (2005), 117–138.

11. Non-ergodic maps in the tangent family. *Indag. Math. (N.S.) 14*, 1 (2003), 103–118.

Publications related to the project Mizar

12. First-countable, sequential, and Frechet spaces. *Formalized Mathematics 7*, **1** (1998), 81–86.
13. The sequential closure operator in sequential and Frechet spaces. *Formalized Mathematics 8*, **1** (1999), 47–54.
14. Lim-inf convergence. *Formalized Mathematics 9*, **2** (2001), 237–240.
15. The Tichonov Theorem. *Formalized Mathematics 9*, **2** (2001), 373–376.

Research Grants

2006–2009	Chilean Science Foundation (FONDECYT) Project: Invariant Measures and Thermodynamic Formalism for Meromorphic Functions (Fondecyt N. 11060538), Principal Researcher.
2006–2009	Chilean Science Foundation (CONICYT) Low Dimensional Dynamical Systems Network, Young Researcher.
2006–2009	European Union Marie Curie Research Training Network CODY: Conformal Structures and Dynamics, Associate Researcher of Warsaw node.
2005	Warsaw University of Technology Geometric Rigidity and Multifractal Analysis for Meromorphic Function.
2004	Warsaw University of Technology Project: Investigation of Properties of the Julia Set of Functions of the Form $f = R(\exp(z))$, where R is a Rational Map, Principal Researcher.
2004	Warsaw University of Technology Project: Hausdorff Dimension and Geometry of the Julia Set for Meromorphic Functions.
2003–2006	Polish Science Foundation (KBN) Project: Conformal Dynamical Systems and Geometry of the Fractal Sets.
2002–2003	Warsaw University of Technology project: Conformal and Invariant Measures and Hausdorff Dimension of the Julia Set for Transcendental Meromorphic Functions.
2001	Warsaw University of Technology Project: Invariant Measures for Meromorphic Functions.
2000–2004	European Union Marie Curie Research Training Network CALCULEMUS: Systems for Integrated Computation and Deduction.
1997–1998	Polish Science Foundation (KBN) Project: Natural Artificial Intelligence Research in Automated Reasoning.