

Stanislav Nagy

Curriculum Vitae, October 2024

Personal details

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Family name:	Nagy	First name:	Stanislav
Nationality:	Slovak	ORCID:	0000-0002-8610-4227
Web:	www.karlin.mff.cuni.cz/~nagy gems.karlin.mff.cuni.cz	Scopus:	56519313700
		ResearcherID:	D-9116-2017
Date of birth:	1st of December, 1987	Ph.D. defence:	19th of December, 2016

Qualifications and work experience

II

Research and teaching positions

2024 – present	Charles University , Prague, Czech Republic Associate Professor (docent), Dept. of Probability and Math. Statistics Supervised post-doctoral fellows/PhD/master/bachelor students: 1/1/8/14 Teaching activities: Linear Regression (2017 – 2022) (courses co-taught) Advanced Statistics Seminar (2020 – 2023) Modern Statistical Methods (2017 – present) Mathematical Statistics I, II, and IV (2017 – present) Probability and Statistics (2017 – present) Robust Statistics (2022 – present)
2017 – 2024	Charles University , Prague, Czech Republic Assistant Professor, Dept. of Probability and Math. Statistics
2013 – 2017	Research Foundation – Flanders , Belgium Ph.D. fellow, KU Leuven, Department of Mathematics Including a postdoctoral stay of 9 months in January – September 2017

Education history

2013 – 2016	Ph.D. in Mathematics (double degree), KU Leuven , Belgium Faculty of Science; Ph.D. supervisor Prof. Irène Gijbels
2011 – 2016	Ph.D. in Probability and Mathematical Statistics (double degree) Charles University , Prague, Czech Rep. Faculty of Mathematics and Physics; Ph.D. supervisor Prof. Daniel Hlubinka
2009 – 2011	Mgr. in Probability, Math. Statistics and Econometrics (summa cum laude) Faculty of Mathematics and Physics, Charles University, Prague, Czech Rep.
2006 – 2009	Bc. in Mathematics (summa cum laude) Faculty of Mathematics and Physics, Charles University, Prague, Czech Rep.

Selected research visits (at least one week long only)

2023	Aalto University , Finland Research stay — <i>Depth and its computation</i> (with P. Ilmonen, 2 weeks)
2021	Universität Bonn , Germany (4 months) Trimester program — Hausdorff Research Institute for Mathematics (HIM) <i>The Interplay between High-Dimensional Geometry and Probability</i> Research stay supported by a full HIM fellowship (12 000 €).
2019	Case Western Reserve University , Dept. of Mathematics, Cleveland, US Research stay — <i>Floating bodies and lift zonoids</i> (with E. M. Werner, 3 weeks)
2018	Goethe-Universität Frankfurt am Main, Germany Special course — <i>Floating bodies and affine invariants</i> (1 week)
2017	Université Toulouse – Jean Jaurès , France (2 months) Research stay — <i>Analysis of high-dimensional data</i> (with F. Ferraty) Supported by a Research Foundation - Flanders travel grant (V429617N, 3 000 €)
2016	Mathematisches Forschungsinstitut Oberwolfach , Germany Oberwolfach Workshop: <i>New Developments in Functional and Highly Multivariate Statistical Methodology</i> (1 week)
2016	Université Toulouse – Toulouse Mathematics Institute , France (4 months)

Research stay — *Functional data analysis* (with F. Ferraty)
 Supported by a Research Foundation - Flanders travel grant (V410616N, 7 000 €)
 2012 **Mathematisches Forschungsinstitut Oberwolfach**, Germany
 Oberwolfach Seminar: *Statistics for High-Dimensional Data* (1 week)

Grants and selected awards

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2024–2029 **ERC CZ research grant** LL2407 (Principal Investigator) (1 400 000 €)
GeMS: Geometric Multivariate and Non-Euclidean Statistics
 2024 Charles University Research Centre program UNCE/24/SCI/022 — Collaborator
Intersections of Algebra, Geometry, and Informatics
 2024 – 2026 **Czech Science Foundation research grant** GAČR 24-10822S
Geometric Multivariate and Non-Euclidean Stat. (Principal Investigator) (300 000 €)
 2022 Nomination for GAČR president’s award in Physical Sciences (GAČR 19-16097Y)
 2022 ERS IASC Young Researcher Award, COMPSTAT international conference, Italy
 2022 Prize of the *Czech Mathematical Society*
 2021 – 2022 French-Czech mobility grant *Programme Barrande* (Principal Investigator) (6 000 €)
 2020 *Bernard Bolzano prize in Mathematics*
 2018, 2021, 2023 *Progres Q49 prize for best scientific papers in Mathematics* (awarded three times)
 2019 – 2021 **Czech Science Foundation research grant** GAČR 19-16097Y
Geometric Methods in Statistics (Principal Investigator) (120 000 €)
 2018 – 2021 **Charles University research grant** PRIMUS/17/SCI/03
Advanced Geometric Methods in Statistics (Principal Investigator) (350 000 €)
 2018 – 2020 Czech Science Foundation research grant GAČR 18-00522Y — Collaborator
 2018 Goethe-Universität Frankfurt am Main travel grant
 2016, 2017 COST Action IC1408 trainee travel grant (awarded twice)
 2015 Best student talk, PROBASTAT international conference, Slovakia
 2013 – 2017 **Research Foundation - Flanders Ph.D. fellowship** — Aspirant (140 000 €)
 2013 Best student poster, ICORS international conference, Russia
 2012, 2016 Oberwolfach OWLG travel grant (awarded twice)
 2011 RSJ Investments prize for the best master thesis in probability and statistics
 2010, 2012 Best student talk, ROBUST workshop, Czech Rep. (awarded twice)

Selected invited talks (plenaries in bold)

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2024 Lund University, Sweden (statistics seminar)
 2024 RSS International Conference, Brighton, UK
 2024 Bernoulli-IMS World Congress in Probability and Statistics, Bochum, Germany
 2024 ICORS Conference on Robust Statistics, Fairfax, US
 2024 Workshop on Functional Data Analysis, Copenhagen, Denmark
 2024 Algebra Colloquium, Charles University, Prague, Czech Rep.
 2023 ERCIM Conference on Computational and Methodological Statistics, Berlin, Germany
 2023 ESSEC Business School, Paris (statistics seminar)
 2023 TU Dortmund, Germany (statistics seminar)
 2023 Workshop on Statistics and Data Analysis, Chrastice, Czech Republic
 2023 Universidad Autónoma de Madrid, Spain (statistics seminar)
 2023 COMPSTAT Conference on Computational Statistics, London, UK
 2023 European Meeting of Statisticians, Warsaw, Poland
 2023 **I Joint Workshop on FDA and Nonpar. Stat.**, Miraflores de la Sierra, Spain
 2022 Université Libre de Bruxelles, Belgium (statistics seminar)
 2022 EPFL Lausanne, Switzerland (statistics seminar)
 2022 YoungStatS webinar, YouTube stream
 2022 Stat of ML, Prague, Czechia
 2022 COMPSTAT Conference on Computational Statistics, Bologna, Italy
 2022 Intl. Symposium on Nonparametric Statistics, Paphos, Cyprus
 2022 Les 53èmes Journées de Statistique, Lyon, France
 2022 Conference of Czech Mathematicians, Ostrava, Czechia
 2021 CMStatistics 2021, London, UK
 2021 New Bridges between Mathematics and Data Science, Valladolid, Spain
 2021 Stochastics Seminar, Heidelberg/Mannheim, Germany
 2021 **4EU+ Summer School Modern Probability and its Applications**, Warsaw, Poland

- 2021 CLADAG Meeting of the Classification and Data Analysis Group, Florence, Italy
- 2021 **Intl. Workshop on Functional and Operatorial Statistics**, Brno, Czechia
- 2021 Imperial College London, UK (statistics seminar)
- 2021 High dimensional measures: Geometric and probabilistic aspects, Bonn, Germany
- 2021 Universidad Carlos III de Madrid, Spain (statistics seminar)
- 2020 ENSAE Paris, France (mathematics seminar)
- 2019 Aalto University, Helsinki, Finland (mathematics seminar)
- 2019 CLADAG Meeting of the Classification and Data Analysis Group, Cassino, Italy
- 2019 III Intl. Workshop on Advances in Functional Data Analysis, Castro Urdiales, Spain
- 2019 CRoNoS Workshop on Multivariate Data Analysis, Limassol, Cyprus
- 2018 ERCIM Conference on Computational and Methodological Statistics, Pisa, Italy
- 2018 CRoNoS Workshop on Functional Data Analysis, Iași, Romania
- 2018 Czech Technical University, Prague, Czech Republic (mathematics seminar)
- 2018 Workshop on Data Analysis, Kunčice, Czech Republic
- 2018 Humboldt-Universität zu Berlin, Germany (mathematical statistics seminar)
- 2018 Workshop on Statistical Depths and Functional Data Analysis, Helsinki, Finland
- 2018 Masaryk University, Brno, Czech Republic (applied mathematics seminar)
- 2018 Matej Bel University, Banská Bystrica, Slovakia (mathematics seminar)
- 2018 Workshop on statistical depths and functional data analysis, Aalto University, Helsinki, Finland
- 2017 ERCIM Conference on Computational and Methodological Statistics, London, UK
- 2017 **Conference of Slovak Mathematicians**, Jasná pod Chopkom, Slovakia
- 2017 Charles University, Prague, Czech Republic (Noon seminar, Department of Applied Mathematics)
- 2016 CRoNoS Workshop on Functional Data Analysis, Oviedo, Spain
- 2016 Charles University, Prague, Czech Republic (statistics seminar)
- 2016 Workshop on Functional Data Analysis, Les Diablerets, Switzerland
- 2016 Comenius University, Bratislava, Slovakia (mathematics seminar)
- 2016 Université Toulouse, France (statistics seminar, Toulouse Mathematics Institute)
- 2016 Universität Mannheim, Germany (statistics seminar)
- 2016 Spring School *Structural Inference*, Brodten, Germany
- 2016 Oberwolfach Workshop *New Developments in Functional and Highly Multivariate Statistical Methodology*, Oberwolfach, Germany
- 2014 COMPSTAT Conference on Computational Statistics, Geneva, Switzerland

Other professional service

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- **Peer reviewer** for most of the major journals in statistics (100 reviews for 38 journals since 2014)
- **Organiser** of invited sessions at international conferences (CRoNoS 2018 and 2019)
- **Scientific committee member** at international conferences (Austrian Statistical Days 2024, PROBASTAT 2024, IWFOs 2025)
- **(Co)-Editor** of three books of conference proceedings (IWSM 2012 vols. I and II, EYSM 2015)
- **Ph.D. defence committee member**
 - Ivana Pavlů (*Univerzita Palackého v Olomouci, Czech Republic, 2024*)
 - Sara Armaut (*Université Côte d’Azur, Nice, France, 2024*)
 - Carlos Ramos-Carreño (*Universidad Autónoma de Madrid, Spain, 2023*)
 - Dimitri Konen (*Université libre de Bruxelles, 2022*)
 - Antonio Elías-Fernandez (*Universidad Carlos III de Madrid, Spain, 2020*)
- **Supervisor** of a thesis awarded by the *Prize of the dean of the Faculty of Mathematics and Physics at CU*
 - Mendroš, E. (2023). Simplicial depth. *Charles University*. 48 pp. Prize for the best bachelor’s thesis in Mathematics.

Supervision of theses awarded by the RSJ prize for best master theses of the *Department of Probability and Math. Statistics of CU*

- Brabenec, T. (2021). Depth of variance matrices. *Charles University*. 83 pp. First prize.
- Říha, A. (2021). Symmetry of random vectors. *Charles University*. 58 pp. Third prize.
- Ranošová, H. (2023). α -symmetric measures. *Charles University*. 87 pp. First prize.

Supervision of theses awarded by the Josef Štěpán prize for best bachelor theses of the *Department of Probability and Math. Statistics of CU*

- Říha, A. (2019). Halfspace median. *Charles University*. 27 pp.
- Hendrych, F. (2020). Zonoids of measures and applications. *Charles University*. 51 pp.
- Ranošová, H. (2021). Spherically symmetric measures. *Charles University*. 45 pp.
- Bočinec, F. (2022). Anderson's theorem. *Charles University*. 42 pp.
- Mendroš, E. (2023). Simplicial depth. *Charles University*. 48 pp.

Supervision of student research works awarded in the annual *Competition for Czech and Slovak university students in mathematical research (SVOČ)*

- Hendrych, F. (2021). Relation of weak convergence of measures and the convergence of their lift zonoids in Hausdorff distance. *Charles University*. 38 pp. Second prize.
- Bočinec, F. (2023). Conditions for equality in Anderson's theorem. *Charles University*. 21 pp. Second prize.
- Mendroš, E. (2024). Bivariate simplicial depth: Explicit expression, computation, and applications. *Charles University*. 41 pp. First prize.