

Curriculum Vitae (June 12, 2018)

Personal:

First name: Pavlo
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Date of Birth: 6th of March 1988
Place of Birth: Kyiv, Ukraine
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Education:

07/2014: Defended PhD thesis with topic:
“Contributions to depth-based classification
and computation of the Tukey depth”
10/2011 - 07/2014 : Doctoral student at the University of Cologne
06/2011: Defended master thesis with topic:
“Functional Dependability Management of Corporate
Information-Telecommunication System”
06/2009: Defended bachelor thesis with topic:
“Operational Reliability Control in Information
and Telecommunication Systems”
09/2005 - 06/2011: National Technical University of Ukraine
“Kyiv Polytechnic Institute”
Faculty of Informatics and Computer Science
Department of Technical Systems Automation and Control
1995 - 2005: School # 314 in Kyiv

Employment:

09/2016 - ...: Assistant Professor in Statistics
at National School of Statistics and Information Analysis (Ensaï),
member of Center for Research in Economics and Statistics (CREST)
- lecture Inferential Statistics (1st year)
- lecture Parallel Computing with R and Python
(Int. MSc. Smart Data)
- lecture Statistical and Deep Learning (Int. MSc. Smart Data)
- lecture Statistical Testing (1st year)
- lecture Aggregation Methods in Statistics
and Combinatorial Complexity (Int. MSc. Big Data)
09/2015 - 08/2016: Post-doc fellow of Lebesgue Center for Mathematics
(site Agrocampus Ouest):
- research on missing values and data depth,
08/2014 - 08/2015: Post-doc at the University of Cologne:
- research in nonparametric statistics,
- practical classes in “Mathematical Methods” (bachelor),

10/2011 - 07/2014: Teaching/research assistant at the University of Cologne:
 - research in nonparametric statistics,
 computational statistics, supervised classification
 - practical classes in “Descriptive and Economic Statistics”
 (Statistics A, bachelor)
 - practical classes in “Probability and Statistical Inference”
 (Statistics B, bachelor)
 - organization of Tutorials in Statistics A (bachelor),
 - co-organization of student seminar
 “Statistical methods of classification” (master).

11/2009 - 01/2010,
 05–06, 11/2010,
 02–03, 05/2011: Internship at Fachhochschule Merseburg,
 specialty ”Informatics and Communication Systems”

Main research fields:

- Data depth, machine learning, computational statistics, missing values, robust statistics, multivariate data analysis, functional data analysis, data envelopment analysis.

Recent manuscripts:

- Liu, X., Mosler, K., and Mozharovskyi, P. (2017): Fast computation of Tukey trimmed regions and median in dimension $p > 2$.
- Pokotylo, O., Mozharovskyi, P., and Dyckerhoff, R. (2017): Depth and depth-based classification with R-package `ddalpha`. (conditionally accepted for *Journal of Statistical Software*)
- Mozharovskyi, P., Josse, J., and Husson, F. (2017): Nonparametric imputation by data depth.
- Mozharovskyi, P. (2016): Tukey depth: linear programming and applications.

Journal articles:

- Mosler, K. and Mozharovskyi, P. (2017): Fast *DD*-classification of functional data. *Statistical Papers*, 58(4), 1055–1089.
- Mozharovskyi, P. and Vogler, J. (2016): Composite marginal likelihood estimation of spatial autoregressive probit models feasible in very large samples. *Economics Letters*, 148, 87–90.
- Badunenko, O. and Mozharovskyi, P. (2016): Nonparametric frontier analysis using STATA. *Stata Journal*, 16(3), 550–589.
- Dyckerhoff, R. and Mozharovskyi, P. (2016): Exact computation of the half-space depth. *Computational Statistics and Data Analysis*, 98, 19–30.

- Mozharovskyi, P., Mosler, K., and Lange, T. (2015): Classifying real-world data with the $DD\alpha$ -procedure. *Advances in Data Analysis and Classification*, 9(3), 287–314.
- Lange, T., Mosler, K., and Mozharovskyi, P. (2014): Fast nonparametric classification based on data depth. *Statistical Papers*, 55(1), 49–69.
- Lange, T. and Mozharovskyi, P. (2010): Depth determination for multivariate samples (in Russian). *Inductive modeling of complex systems*, I 2, 101–119.
- Grishko, V.F. and Mozharovskyi, P.F. (2009): Management-information system hardware reliability evaluation (in Ukrainian). *Mathematical Machines and Systems*, 3, 194–201.

Conference proceedings:

- Lange, T., Mosler, K., and Mozharovskyi, P. (2014): $DD\alpha$ -classification of asymmetric and fat-tailed data. In: Spiliopoulou, M., Schmidt-Thieme, L., and Janning, R. (eds.), *Data Analysis, Machine Learning and Knowledge Discovery*, Springer, Berlin, 71–78.
- Lange, T. and Mozharovskyi, P. (2014): The alpha-procedure: a nonparametric invariant method for automatic classification of multi-dimensional objects. In: Spiliopoulou, M., Schmidt-Thieme, L., and Janning, R. (eds.), *Data Analysis, Machine Learning and Knowledge Discovery*, Springer, Berlin, 79–86.
- Lange, T., Mosler, K., and Mozharovskyi, P. (2013): Efficient depth-based classification using a projective invariant of class membership (in Russian). *Control Systems and Computers*, 2, 47–58.
- Lange, T., Mozharovskyi, P., and Barath, G. (2011): Two approaches for solving tasks of pattern recognition and reconstruction of functional dependencies. *Proceedings of ASMDA Conference*, Rome, 7–10 June 2011 (supplemented with examples and benchmark results, Statistical Week, Leipzig, 19–23 September 2011).
- Rolick, A., Mozharovskyi, P., and Mart, B. (2010): Application of depth-trimmed regions in IT-infrastructure control systems (in Russian). Coll. of Papers of the 10th Int. Conf. *Intellectual Analysis of Information*, Kyiv, 18-21 May 2010, 214–221.

PhD-thesis:

- Mozharovskyi, P. (2015): *Contributions to depth-based classification and computation of the Tukey depth*. Dr. Kovač Verlag, Hamburg.

Software, data, patents:

- R-packages `ddalpha` (CRAN), `npsf` (CRAN), `TukeyRegion` (CRAN), `imputeDepth` (GitHub), `geometry` (GitHub).
- STATA-commands: `tenonradial`, `teradial`, `teradialbc`, `nptestind`, `nptestrts`.

- MATLAB: LCML.
- Repository with 50 ready-to-use real-data binary classification tasks.
- Rolick, A. and Mozharovskyi, P. (2013): Patent UA 103475 C2, Method of functionality analysis of objects of an information-telecommunication system, N a 2010 12773, Ukraine.

Languages:

- Knowledge of programming languages: R, Python, Matlab, Stata, C#, C/C++, Pascal/Delphi, Prolog, Assembler, SQL (FoxPro, MSSQL, Oracle).
- Knowledge of natural languages: Ukrainian (mother tongue), Russian (mother tongue), English (fluent), German (fluent), French (intermediate).