

Piotr Sobczyk

CONTACT INFORMATION	Department of Mathematics Wrocław University of Technology	<i>E-mail:</i> Piotr.Sobczyk@pwr.edu.pl <i>Office:</i> +48 71 320 2008
RESEARCH INTERESTS	Dimensionality reduction, multivariate statistics, model order selection, bioinformatics, applied statistics, optimization	
EDUCATION	Wrocław University of Technology , Wrocław	
	PhD, Mathematics	2013 – currently
	Advisor: Małgorzata Bogdan Wrocław University , Wrocław	
	Master Studies, Mathematics	2011 – 2013
	President of Students Applied Mathematics Association	
	Bachelor Studies, Computer Science	2008 – 2014
	Bachelor Studies, Mathematics	2008 – 2011
AWARDS	Student awards	
	Prize for the best talk, <i>Eighth International Workshop on Simulation</i> , Vienna, Austria	September 2015
	Distinction in the contest of Polish Mathematical Society for the best thesis in applied mathematics	September 2013
	Travel awards	
	RECOMB Conference	April 2015
PAPERS	<i>Methods of comparing digital PCR experiments</i> , M. Burdukiewicz, S. Rodiger, P. Sobczyk, M. Menschikowski, P. Schierack, P. Mackiewicz, submitted to <i>Biomolecular Detection and Quantification</i>	
POSTERS AND PRESENTATIONS	<ol style="list-style-type: none">1. Dimension reduction with partially integrated penalized likelihood, <i>Eighth International Workshop on Simulation</i>, Vienna, Austria, September 20152. Predicting eukaryotic signal peptides using hidden Markov models, RECOMB, Warsaw, Poland, 20153. Quick Permutation Test: feature filtering of n-gram data, RECOMB, Warsaw, Poland, 20154. <i>varclust</i> – new iterative Subspace clustering method, Mathematical Statistics Conference, Wisła, Poland, 20145. Recognizing protein coding sequences in prokaryotic genomes with Hidden Markov Models, Mathematical Statistics Conference, Wisła, Poland, 2013	

PROGRAMMING
SKILLS

Programming Languages

R – significant experience

coauthor of two CRAN packages `biogram` and `signalHsmm`

author and coauthor of several packages on github

advanced graphics with `ggplot2`, see my blog szychtawdanych.pl (in polish)

Knowledge of Functional programming

F# – work experience

Haskell – University projects

Some experience with C++, Python, Postgre SQL and VBA

Markup

L^AT_EX

Markdown

PROFESSIONAL
EXPERIENCE

Wrocław University of Technology, Wrocław November 2013 – currently

Research assistant

Working in European Grant **IDEAL**

Credit Suisse, Wrocław

March 2013 – September 2013

Working in Quantitative Strategies Team

Programming in **F#**

ICM, Warsaw University, Warsaw

August – September 2012

Machine learning internship - breast cancer risk prognosis

TU Europa, Wrocław

July 2012

Internship in Actuarial Department

Constructing adjusted Actuarial Life Table

Bank Zachodni WBK, Wrocław

July 2011

Internship in Business Intelligence department

VI Summer Research Internship, Warsaw

July – August 2010

Interdisciplinary internship for student in Science, Economics and Technology

Organized by Polish Academy of Sciences

LANGUAGE
SKILLS

English – fluent (speaking, reading, writing)

Spanish – intermediate (reading); basic (writing, speaking)

German – intermediate (reading); basic (writing, speaking)

TEACHING
EXPERIENCE

Teaching Assistant

Algebra and Analytic Geometry B October 2013 – February 2014

Mathematical Statistics February – June 2014

Mathematical Analysis 1 February – June 2014

Statistics and Probability Theory October 2014 – February 2015

Mathematics 1 October 2014 – February 2015

Other

Tutoria (Help Room), Mathematics Institute February – June 2010