

Małgorzata Peszyńska, University Distinguished Professor

Department of Mathematics, Oregon State University, Corvallis, OR 97331-4605

<https://math.oregonstate.edu/~mpesz>

full CV: <http://www.math.oregonstate.edu/~mpesz/Peszynska-CV.pdf>

EDUCATION: MS (Applied Mathematics; Warsaw University of Technology, 1986); PhD (Mathematics; University of Augsburg, 1992); Habilitation (Mathematics, Warsaw University of Technology, 2011).

EMPLOYMENT: NSF DMS Program Director (2019-21); Oregon State University (Professor, 2012,- Associate Prof. 2006-12; Assistant Prof. 2003-06); ICES, UT Austin (Research Assoc. 1998-03; Associate Director of Center for Subsurface Modeling 2002-03); Mathematics, UT Austin, (Lecturer, 1995-98); Purdue University, Mathematics (Visiting Assist. Prof.; Fall 93; 1994-95); Warsaw University of Technology (Assist. Prof. 1993-94); Polish Academy of Sciences (Senior Researcher 1992-94 and Researcher 1986-90).

EDITORIAL BOARD: MATCOM (2024-); Computational Geosciences (2023-); SIAM J. Numerical Analysis (2013-22); Computation (2015-); International J. of Numerical Analysis & Modeling (2006-); Results in Applied Mathematics (2022-); J. of Applied Mathematics (2009-19).

AWARDS: OSU University Distinguished Professor (2024); SIAM Women's History Month Honoree (2023). Joel Davis Faculty Scholar (2022); College of Science Champion of Science (2022); SIAM Geosciences Career Prize (2021); AAAS Honorary Fellow (2020); Joel Davis Faculty Excellence Award (2016); Graduate Faculty Award (2016); Fulbright Research Scholar (UWarsaw, 2009-2010); Mortar Board Top Professor (2005); First Research Award (Polish Academy of Sciences, 1993); Distinguished Fellow (Kosciuszko Foundation, 2015); Best Paper in Geophysics (2005) Stefan Batory (Soros) Foundation International Travel Award (1993); DAAD Research Fellowship (1990-1992, University of Augsburg).

RESEARCH INTERESTS: applied and computational modeling of real life phenomena; mathematical and numerical analysis and simulation of models; multiscale and nonlocal models of flow and transport; coupled complex systems; stochastic modeling; hybrid models.

GRANT FUNDING: (over \$2.5M since 2001): continuous NSF funding as PI and co-PI since 2001; DOE and DOE NETL as PI and co-PI; various OSU funding; NVIDIA funding.

PUBLICATIONS: See <http://www.math.oregonstate.edu/~mpesz/publications.html>. 95+ all including tech reports; 60+ refereed (50+ journal), 3+ editorial volumes.

PRESENTATIONS: 60+ plenary talks at national and international events and colloquia (CEDYA 2024; ICERM 2024; IFIP 2022; SIAM GS 2021, 2017; Oberwolfach 2014; IMA 2001, 2011; PNWNAS 2006, 2013, Gordon RC 2014, 2015); DOE Multiscale workshops (2007, 2008); RMMC (2007). 100+ invited talks; 30+ seminar talks; 20+ outreach and posters.

SERVICE and LEADERSHIP: President (2018-20) and Vice-President (2016-18) of Pacific Northwest SIAM Section; Chair (2011-12) and Program Officer (2009-10) of SIAM Activity Group on Geosciences; Organizing/Program Committee of 15+ regional, national and international events; Co-organizer of 25+ minisymposia and special sessions. Co-founder: CASCADE RAIN (2014-). OSU Mathematics: Graduate Director 2015-19. COS Dean Advisory Committee; OSU Faculty Senate committees (Bacc-core, Commission on Status of Women, Promotion & Tenure).

REFeree AND REVIEWER: Referee and panelist for NSF, DOE, CDRF, ACF, Army Research Office. National Science Foundations for Germany, Israel, Portugal, The Netherlands. Referee for 30+ mathematics and applications journals. Mathematical Reviews.

STUDENTS: postdoc (3), graduate (10 PhD completed, 4 in progress, 19 MS); undergraduate (20+ projects). 25+ PhD and MS committees in Mathematics, OSU, and outside OSU.

CURRICULUM: co-developed Applied and Comp. Math option for Math BS, OSU. Developed graduate and senior courses MTH 4/520 Models and Methods of Applied Mathematics, MTH 654-5-6 on Finite Elements, Large Scale Scientific Computing, Numerical Functional Analysis.