

Curriculum Vitae: Mohammad Asadzadeh

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Address

Department of Mathematical Sciences
Chalmers University of Technology
SE-412 96 Göteborg, Sweden
E-mail: mohammad@chalmers.se
URL: <http://www.math.chalmers.se/~mohammad>

Professional preparation

B.Sc. in Mathematics, Kharazmi (Tarbiat Moallem) University of Tehran, 1973.
Ph.D. in Mathematics, The University of Göteborg, Sweden, 1986.
Thesis: “Convergence analysis of some numerical methods for neutron transport and Vlasov equations”. Supervisor: Claes Johnson.

Professional experience

Department of Science and Education of Iran, Shoushtar:

- *Lecturer of Mathematics and Physics (high school/college), 1973-1975.*

National Industrial Education Center of Iran, Kashan University of Tech:

- *Lecturer of Mathematics (undergraduate engineering), 1975-1977.*

Chalmers University of Technology:

- *Assistant of Mathematics, 1978-1986.*
- *Assistant Professor, 1986-1995 (on leave 93-95 visiting UM)*

University of Michigan, Ann Arbor:

- *Visiting Assistant Professor of Mathematics, 1993-1995.*

Chalmers University of Technology:

- *Senior Lecturer of Mathematics, 1993-2001.*
- *Associate Professor of Mathematics (Docent), 2001–2011 (on leave 2007 visiting Cornell).*

Cornell University:

- *Visiting Professor of Mathematics, 2007.*

Chalmers University of Technology:

- *Professor of Applied Mathematics, 2012–2018. Swedish: bitr. Prof.*
- *Professor of Applied Mathematics, 2018–present.*

Fellowship and research grants

Research scholar grant, 1984; University of Michigan, Ann Arbor, USA.

EU/INTAS research project grant, 2005-2006; “On Synthetic Optimal Control”:
Coordinator for Azerbaijan, Sweden, Turkey and Ukraine.

JSPS (Japan’s Society for the Promotion of Science) grant, 2009:

Numerical analysis of BGK equation. Kyoto University, Aerospace engineering.

RAYsearch grant 2011: *Finite elements for radiation oncology; Head screening.*

Swedish Research Council (VR) grants,

- Project: 2010-2013, *Numerical methods for neutron transport equation*
- Joint project: 2013-2017, *DREAM (Deterministic REActor Modelling)*.
with applied physics, mechanics and Fraunhofer Institutes at Chalmers.

Awards

Riaazi Kermani award 2013: For the “best paper” in *The 43th Annual Iranian Mathematical Conference for academic year 2011-2012*.

Master students

I have supervised over a dozen of master thesis at Dept of Math, Chalmers. and 2 at Institute of Advance Studies in Basic Sciences (IASBS), Zanjan, Iran.

Research students

Abdelouahab Kadem, PhD Applied Mathematics, 2006. (Chalmers)/Setif U.
Spectral methods for the neutron transport equation.

Hassan Almanasreh, PhD Applied Mathematics, 2012. GU/Chalmers.
The Dirac Equation: Numerical and Asymptotic Analysis.

Ehsan Kazemi, PhD Applied Mathematics, 2015. (Chalmers)/Isfahan U of Tech
The Streamline Diffusion and Discontinuous Galerkin Methods for Linearized Boltzmann Equation

John Bondestam Malmberg; PhD Applied Mathematics, 2017 (co-adviser). GU.
Efficient Adaptive Algorithms for an Electromagnetic Coefficient Inverse Problem.

Christoffer Standar; PhD Applied Mathematics, 2017. Chalmers.
On finite element schemes for Vlasov-Maxwell system and Shrödinger equation.

Current graduate student: Niklas Eriksson; Department of Mathematics, GU.
On finite element approximations for Stokes and Navier-Stokes equations.

Postdoctoral students

Sebastian Gonzalez Pintor, Spain, 2013-2017.

Tobias Gebäck, Sweden, 2010-2012.

Laurent Thevenot, France, 2003.

Piotr Kowalczyk, Poland, 2002.

Alexandros Sopasakis, USA, 2000-2002.

Editorial

- Editorial board: Applied and Computational Mathematics, 2002-
- Associate editor: Bulletin of Iranian Mathematical Society, 2003-
- Editorial board: Computational Methods for Differential Equations, 2012-
- Associate editor: Iranian Journal of Science and Technology, 2016-

Administration

- Member of the Library board at Math department, Chalmers, 1982-2007.
- Vice-chair: Swedish University Teachers Assoc. (SULF), Chalmers 1999-2012
- Board member: Swedish Academicians Organization (SACO), Chalmers 2005-
- Member of the coordinating board, mathematical sciences, Chalmers 2005-
- Member of Project NT5, QA; *Quality assurance of Master programs in 5 Nordic University of Technologies: Aalto (Helsinki), Chalmers (Göteborg), DTU (Copenhagen), KTH(Stockholm) and NTNU(Trondheim)*; 2009-2012.
- Member of the SAC (Swedish Alumni Club) of JSPS, 2015-
- Chairman of the Swedish University Teachers Association at Chalmers, 2018/2019.

Books

- M. Asadzadeh, *Analys och linjär algebra*, Studentlitteratur,
Upplaga 1, 2004, pp. 399, ISBN: 91-44-03793-7.
Upplaga 2, 2007, pp. 431, ISBN: 9789144005256.
- M. Asadzadeh, *An Introduction to Finite Element Method (FEM) for Differential Equations*. Wiley (To appear).
- M. Asadzadeh and K. Holmåker, *Fourier Analysis and its Applications* (in preparation).
- M. Asadzadeh and R. Emanuelsson, *Tabeller och Formuler* (in preparation).

Lecture Notes

- M. Asadzadeh, *PDE Lecture Notes 2001-, ..., -2017* (electronic).
- M. Asadzadeh, *Lecture Notes in Fourier analysis 2008* (electronic).
- M. Asadzadeh, *An introduction to finite element methods for differential equations, 2006-,..., 2019* (Compendium).
- M. Asadzadeh and F. Bengzon, *TMA682, Lecture Notes, 2004* (electronic).
- M. Asadzadeh, *Fourier and Wavelet Analysis, Lecture Notes, 2010-2019*, (electronic).
- M. Asadzadeh and R. Emanuelsson, *Flervariabelanalys* (available upon request).

Publications Info and details are given in the list of publications.

Languages known: English, Swedish, French, Persian, Azari.

Membership in Professional Organizations

- AMS (American Mathematical Society).
- SIAM (Society of Industrial and Applied Mathematics).
- Swedish Mathematical Society.

Current research projects: see,
<http://www.math.chalmers.se/~mohammad>

Community service

I have evaluated a dozen of lecturerships (at assistant/associate professor levels) for Swedish universities, and for few promotions to full professorship in USA. I have served as opponent in applied mathematics and nuclear engineering PhD defenses in Sweden, Norway and France. I have served in about 20 math and engineering PhD committees in Sweden. I have written reviews for math and numerical analysis books and for more than 200 reviews (MathRev) for published papers. I have act as referee for more than 50 math manuscripts submitted to applied math journals.