CURRICULUM VITAE

PERSONAL DATA

- *First Name:* Banafsheh
- *Last Name:* Akbari
- *Nationality:* Iranian
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ACADEMIC BACKGROUND

- K. N. Toosi University of Technology, IRAN; 2009–2014; Ph.D. in Pure Mathematics-Algebra.

  Thesis topic: *OD-Recognizability of Finite Groups*,

  Supervisor: Full Prof. A. R. Moghaddamfar.

- K. N. Toosi University of Technology, IRAN; 2007–2009; M.Sc. in Pure Mathematics-Algebra.
  Project title: *OD-Characteriztion of Certain Finite Groups with Connected Prime Graph*,
  Supervisor: Full Prof. A. R. Moghaddamfar.

- Qom University, IRAN; 2003–2007; B.Sc. in Pure Mathematics.

ACADEMIC POSITIONS

- Teaching Associate of Cornell University, Department of Mathematics. Aug. 2022–present.

- Assistant Professor of Sahand University of Technology, Department of Mathematics, Feb. 2015–Jan. 2022.

HONOURS AND AWARDS

- IMU CDC Abel Visiting Fellowship at the University of Salerno, 2021.

- Invited International Scientist Grant at the École Normale Supérieure of Paris, 2021/2022.

SERVICE ROLES

- Reviewer of American Mathematical Society (AMS), Reviewer Number: 152387

PUBLICATIONS

[9] B. Akbari, C. Delizia and C. Monetta, *On The Solubilizer of an Element in a Finite Group*, Submitted.

[8] B. Akbari, Mark L. Lewis, J. Mirzajani and A. R. Moghaddamfar, *The Solubility Graph Associated with a Finite Group*, International Journal of Algebra and Computation, 30(8)(2020), 1555-1564.

[7] B. Akbari, *A Characterization of Some Simple Unitary Groups via Order and Degree Pattern of Solvable Graph*, Journal of Algebraic Structures and Their Applications, 6(2)(2019), 115-127.

[6] B. Akbari, *Hall Graph of a Finite Group*, Note di Matematica, 39(2)(2019), 25-37.

[5] B. Akbari, *OD_s-Characterization of Some Low-Dimentional Finite Classical Groups*, International Electronic Journal of Algebra, 24(2018), 73-90.

[4] B. Akbari, N. Iiyori and A. R. Moghaddamfar, *A New Characterization of Some Simple Groups by Order and Degree Pattern of Solvable Graph*, Hokkaido Mathematical Journal, 45(2016), 337-363.

[3] B. Akbari and A. R. Moghaddamfar, *On Recognition by Order and Degree Pattern of finite Simple groups*, Southeast Asian Bulletin of Mathematics, 39(2015), 163-172.

[2] B. Akbari and A. R. Moghaddamfar, *OD-Characterization of Certain Four Dimensional Linear Groups with Related Results Concerning Degree Patterns*, Frontiers of Mathematics in China, 10(1)(2015), 1-31.

[1] B. Akbari and A. R. Moghaddamfar, *Recognizing by Order and Degree Pattern of Some Projective Special Linear Groups*, International Journal of Algebra and Computation, 22(6)(2012), 22 pages.

TEACHING EXPERIENCE

- Sahand University of Technology
  - Calculus: Winter and Fall 2015–2021
  - Statistics & Probability: Fall 2016, Fall 2017, Fall 2018, Fall 2019
  - Introduction to Algebra: Winter 2019, Winter 2020
  - Algebra: Fall 2020
  - Introduction to Combinatorics: Fall 2019, Winter 2021

  - Graph Theory: Winter 2021
  - Finite Group Theory for Masters Students: Winter 2015
  - Advanced Algebra for Masters Students: Fall 2016
  - Advanced Finite Group Theory for Ph.D. Students: Fall 2018
  - Permutation Groups for Ph.D. Students: Winter 2019
- K. N. Toosi University of Technology
  - Calculus: Fall 2009, Winter 2010

M.Sc. SUPERVISION

- Nastaran Jafari Motlagh,*Project's title: OD-Characterization of Some Projective Special Linear Groups over The Binary Field and Their Automorphism Groups*, October 2017.

CONFERENCE PRESENTATIONS

- *Structure of Vertex Neighbourhoods of Solubility Graphs*, University of Padova, May 11, 2022, Padova, Italy.
- *Graphs Associated with Finite Groups*, University of Salerno, December 9, 2021, Salerno, Italy.
- *A Study on Finite Groups through Some Certain Subsets*, 13th Iranian International Group Theory Conference, November 18–19, 2020, Urmia University, Urmia, Iran.
- *Recognition of Some Simple Groups by Certain Properties of Their Prime Graphs*, 4th International Conference on Combinatorics, Cryptography, Computer Science and Computing, November 20–21, 2019, Iran University of Science & Technology, Tehran, Iran.
- *Some Applications of Graph Theory to Study of Finite Groups*, 4th International Conference on Combinatorics, Cryptography, Computer Science and Computing, November 20–21, 2019, Iran University of Science & Technology, Tehran, Iran.
- *The Graphs Associated with Some Classes of Finite Groups*, 50th Annual Iranian Mathematics Conference, August 26–29, 2019, Shiraz, Iran.
- *A Characterzation of Projective Special Linear Group $L_3(q)$ Through Hall Graph*, 50th Annual Iranian Mathematics Conference, August 26–29, 2019, Shiraz, Iran.
- *On Solvable Graph Associated with a Finite Group*, 11th Iranian Group Theory Conference, January 30–31, 2019, Yazd, Iran.

- *Characterization of Finite Groups by Non-Solvable Graphs and Solvabilizers*, 10th Iranian Group Theory Conference, January 24–26, 2018, Tehran, Iran.
- *On Recognition of Finite Simple Groups by Order and Degree Pattern of Solvable Graph, 25th Iranian Algebra Seminar*, July 20–21, 2016, Sabzevar, Iran.
- *Characterizability of Some Linear Groups by Order and Degree Pattern, Fifth International Group Theory Conference*, March 13–15, 2013, Mashhad, Iran.
- *Recognizing by Order and Degree Pattern of Symplectic and Orthogonal Groups, Summer School on Finite Groups and Related Geometrical Structures*, August 29–September 9, 2011, Venice, Italy.

ADDITIONAL SKILLS

- Programming with Python.
- GAP System for Computational Group Theory.