

# Curriculum Vitae

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## 1 Research Interests

Arithmetic algebraic geometry, Number theory, Cryptography and Combinatorics; more specifically: Distribution of points on algebraic sets and varieties, Exponential and character sums, Arithmetic of finite fields, Curve based cryptography, Algebraic graph theory, Sparse polynomials over finite fields, Extremal combinatorics

## 2 Academic appointments

- **Institute for research in fundamental sciences (IPM)**, Tehran, Iran.  
Associate Professor of Mathematics (with Tenure), June 2016 – present.
- **Institute for research in fundamental sciences (IPM)**, Tehran, Iran.  
Senior research fellow (tenure track), School of Mathematics, Jun. 2012 – Jul. 2016.

- **University college Dublin**, Dublin, Ireland.  
Postdoctoral research fellow, Sep. 2008 – May. 2012.
- **University of Waterloo**, Waterloo, Canada.  
Postdoctoral research fellow, Sep. 2007 – Aug. 2008.
- **University of Toronto and Fields Institute**, Toronto, Canada.  
Postdoctoral research fellow, Sep. 2006 – Aug. 2007.

### 3 Education

- **University of Waterloo**, Waterloo, Canada.  
Ph.D. in Mathematics, January 2002 – August 2006.  
Dissertation Topic: “Distribution of Irreducible Polynomial over Finite Fields”.  
Advisor: Alfred Menezes.
- **University of Tehran**, Tehran, Iran.  
M.Sc. in Mathematics, September 1997 – August 1999.  
Dissertation Topic: “Growth Sequences in Groups”.  
Advisor: Mohammad Reza Darafsheh.
- **University of Tehran**, Tehran, Iran.  
B.Sc. in Electronics Engineering, September 1993 – August 1997.

### 4 Publications

#### Invited Book Chapters

2. O. Ahmadi. *Weight distribution of irreducible polynomials over finite fields*. Handbook of Finite Fields and Their Applications, G. L. Mullen and D. Panario, Editors, CRC Press, pp 70–73, 2013.
1. O. Ahmadi and G. McGuire. *Curves over finite fields and linear recurring sequences*. Surveys in Combinatorics 2015, Cambridge University Press, pp 195–218, 2015.

#### Journal Papers

26. O. Ahmadi and A. Menezes. *On the number of trace-one elements in polynomial bases for  $\mathbb{F}_{2^n}$* . Designs, Codes and Cryptography, 37, 493–507, 2005.
25. O. Ahmadi. *Self-reciprocal irreducible pentanomials over  $\mathbb{F}_2$* . Designs, Codes and Cryptography, 38, 395–397, 2006.
24. O. Ahmadi. *On the distribution of irreducible trinomials over  $\mathbb{F}_3$* . Finite Fields and Their Applications, 13, 659–664, 2007.
23. O. Ahmadi and A. Menezes. *Irreducible polynomials of maximum weight*. Utilitas Mathematica, 72, 111–123, 2007.

22. O. Ahmadi, D. Hankerson and A. Menezes. *Formulas for cube roots in  $\mathbb{F}_{3^m}$* . Discrete Applied Mathematics, 155, 3, 260–270, 2007.
21. O. Ahmadi. *The trace spectra of polynomial bases for  $\mathbb{F}_{2^n}$* . Applicable Algebra in Engineering, Communication and Computing, 18, 391–396, 2007.
20. O. Ahmadi and I. Shparlinski. *Geometric progressions in sumsets over finite fields*. Monatshefte für Mathematik, 152, 177–185, 2007.
19. O. Ahmadi and I. Shparlinski. *Distribution of matrices with restricted entries over finite fields*. Indagationes Mathematicae, vol. 18, Issue 3, pp 327–337, 2007.
18. O. Ahmadi and G. Vega. *On the parity of the number of the irreducible factors of self-reciprocal polynomials over finite fields*. Finite Fields and Their Applications, vol. 14, Issue 1, pp 124–131, 2008.
17. O. Ahmadi, D. Hankerson and F. Rodriguez- Henriquez. *On parallel formulations of scalar multiplications on Koblitz curves*. JUCS, Special Issue on Cryptography in Computer System Security, Springer, vol 14, Issue 3, pp 481–504, 2008.
16. O. Ahmadi, N. Alon, I. Blake and I. Shparlinski. *Graphs with integral spectrum*. Linear Algebra and Its Applications, Vol. 430, Issue 1, pp 547–552, 2009.
15. O. Ahmadi, I. Shparlinski and J. F. Voloch. *Multiplicative order of Gauss periods*. International Journal of Number Theory, Vol. 6, Issue 4, pp 877–882, 2010.
14. O. Ahmadi and I. Shparlinski. *Bilinear exponential sums and sum-product problem on elliptic curves*. Proceedings of the Edinburgh Mathematical Society, Vol. 53, No. 1, pp 1–12, 2010.
13. O. Ahmadi and I. Shparlinski. *On the distribution of the number of points on algebraic curves in extensions of finite fields*. Mathematical Research Letters, Vol. 17, No 4, pp 689–699, 2010.
12. O. Ahmadi and Francisco Rodriguez-Henriquez. *Low complexity cubing and cube root computation over  $\mathbb{F}_{3^m}$  in polynomial basis*. IEEE Transactions on Computers, Vol. 59, Issue 10, pp 1297–1308, 2010.
11. O. Ahmadi. *Generalization of a theorem of Carlitz*. Finite Fields and their Applications, Vol.17, Issue 5, pp 473–480, 2011.
10. O. Ahmadi and R. Granger. *On isogeny classes of Edwards curves over finite fields*. Journal of Number Theory, Vol. 132, Issue 6, pp 1337–1358, 2012.
9. O. Ahmadi, F. Luca, A. Ostafe and I. Shparlinski. *On stable quadratic polynomials*. Glasgow Mathematical Journal, Vol. 54, no. 2, pp 359–369, 2012.
8. O. Ahmadi and R. Granger. *An efficient deterministic test for Kloosterman zeros*. Mathematics of Computation, , Vol. 83, pp 347–363, 2014.
7. O. Ahmadi and I. Shparlinski. *Exponential sums over points of elliptic curves*. Journal of Number Theory, Vol. 140, pp 299–313, 2014.

6. O. Ahmadi, G. McGuire and A. Rojas Leon. *Decomposing jacobians of curves over finite fields in the absence of algebraic structure*. Journal of Number Theory, Vol. 156 ,pp 414–431, 2015.
5. O. Ahmadi and A. Mohammadian. *Sets with many pairs of orthogonal vectors over finite fields*. Finite Fields and their Applications, Vol. 37, pp 179–192, 2016.
4. O. Ahmadi, F. Gologlu, R. Granger, G. McGuire and E. Yilmaz. *Fibre Products of Supersingular Curves and the Enumeration of Irreducible Polynomials with Prescribed Coefficients*. Finite Fields and their Application, Vol. 42, November 2016, Pages 128–164.
3. G. Adj, O. Ahmadi and A. Menezes. *On isogeny graphs of supersingular elliptic curves over finite fields*. Finite Fields and their Application, Vol. 55, January 2019, Pages 268–283.
2. O. Ahmadi and K.M. Shokri. *A note on stable trinomials over finite fields*. Finite Fields and their Application, Vol. 63, March 2020, 13 pages.
1. O. Ahmadi and M. Shafaeiabr. *Difference sets and three-weight linear codes from trinomials*. Finite Fields and their Applications, Vol. 89, August 2023, 36 pages.

### Papers in Conference Proceedings

1. O. Ahmadi, D. Hankerson and A. Menezes. *Software implementation of the arithmetic in  $\mathbb{F}_{3^m}$* . Proceedings of WAIFI 2007, LNCS, vol. 4547 Springer-Verlag, Berlin, 2007, 85–102.

### Submitted papers and preprints.

- O. Ahmadi and A. Najafi. *On the Learnability of Convex Bodies*. preprint.
- O. Ahmadi. *Few weight codes from hyperovals: Resolution of a Conjecture of Cunsheng Ding*. In preparation.
- O. Ahmadi and K.M. Shokri. *BCH codes,  $m$ -sequences and intersection of Fermat hypersurfaces*. preprint.

### Publications in Persian (unrefereed)

2. O.Ahmadi. *Gödl prize winners of 2013*. IPM Newsletter, Vol. 20, No. 1, pp 14–15, 2013.
1. O. Ahmadi. *Cryptography and discrete logarithm problem*. IPM Newsletter, Vol. 20, No2, pp 18–21, 2013.

## 5 Honors and Awards

- Outstanding Teaching Assistant Award, University of Waterloo, Canada, Spring 2006.
- Silver Medal, International Mathematical Olympiad, Istanbul, Turkey, 1993.
- Gold Medal, National Olympiad in Mathematics, Iran, 1993.

## 6 Teaching Experience

- **Instructor:**

- **Courses taught at IPM, Tehran, Iran:** Post-quantum Cryptography: Code-based Cryptography, Algebraic Curves, Finite Fields, Algebraic Function Fields and Codes, Topics in Cryptography, Elliptic Curves, Introduction to Public Key Cryptography, Large Networks and Graph Limits, A Short Course on Pairing Based Cryptography, Mathematics of Public Key Cryptography.
- **Courses taught at the university of Waterloo, Waterloo, Canada:** Introduction to Combinatorics, Linear Algebra II.
- **Courses taught at various high schools in Iran, 1999-2001:** Elementary number theory, Geometry, Combinatorics, Real analysis.
- Preparing high school students in Iran and Ireland for national and international mathematical Olympiads.

- **Teaching Assistant:** Responsibilities included holding office hours, grading, and tutoring. I assisted students with Algebra, Calculus, Introduction to Graph Theory, Linear Optimization, Applied Cryptography, Network Flow Theory, Mathematics of Public Key Cryptography, Deterministic Operation Research Models.

## 7 Postdocs, students and graduate committees

- **Postdocs**

- Ali Mohammadi, Sep 2019–Sep 2022.
- Farzad Aryan, Sep 2022–present.
- Mohsen Bayat, Jan 2023–Jan 2024. Funded by Iranian National Science Foundation.

- **Graduate Students**

- **PhD Students**

- \* Supervision of Masoud Shafaeiabr, Ongoing.
- \* Supervision Hassan Norouzi, Ongoing.

- **Master Students**

Since my employer is a research institute and we do not have an undergraduate and masters program, the master students that I have advised or co-advised have been affiliated with other institutions in Iran.

- \* Soheila Sabbaghian, Thesis title: Permutation polynomials over finite fields, Isfahan University of Technology, Isfahan, Iran, 2017.
- \* Tahereh Mohammadbeigi Dehghani, Thesis title: HIMMO, A key distribution scheme, Isfahan University of Technology, Isfahan, Iran, 2016.
- \* Marjan Amini, Thesis title: Efficient pairing computation on elliptic curves, Isfahan University of Technology, Isfahan, Iran, 2015.

- \* Rasoul Ghafarian, Thesis title: Four dimensional Gallant-Lambert-Vanstone scalar multiplication, Isfahan University of Technology, Isfahan, Iran, 2015.
- \* Abolfazl Salemi, Thesis title: Lattice ideals in cryptography, University of Tehran, Tehran, Iran, 2014.
- \* Mozhgan Jamali, Thesis title: Speeding up integer factorization by elliptic curve method using Edwards curves, Shahid Beheshti University, Tehran, Iran, 2014.
- \* Mina Shamkani Mashhadi, Thesis title: Edwards' normal form for elliptic curves, Shahid Beheshti University, Tehran, Iran, 2013.
- **Undergraduate Students**
  - \* Vladimir Soukharev, Project title: Edwards curves, University of Waterloo, Waterloo, Canada, 2008.
- **Graduate committees**
  - **PhD thesis examiner**
    - \* Reza Kaboli, Sharif University of Technology, Tehran, Iran, 2022.
    - \* Mojtaba Fadavi, Isfahan University of Technology, Isfahan, Iran, 2020.
    - \* Sara Sheikhi, University of Kashan, Kashan, Iran, 2019.
    - \* Ahmad Bourghani Farahani, Sharif University of Technology, Tehran, Iran, 2018.
  - **Master thesis examiner**
    - \* Mohamed Wafik Elsheikh, Sabanci University, Turkey, 2022.
    - \* Maedeh Ghorbani (2021), Ruhollah Mirzaei (2021), Hanieh Gheisari (2020), Peyman Shahbazi (2019), Maryam Mohammadkarimi (2019), Yusof Karimi (2019), Amir-mohammad Kachkhali (2019), Simin Esteki (2018), Mohammad Ali Asadi (2016), Marzieh Ghasemi (2015), Sahel Darabi (2015), Mehran Hosseini (2015), All from Isfahan University of Technology, Tehran, Iran.

## 8 Administrative Experience

- **Scientific Council Member:** School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 2019–present.
- **Hiring Committee Member:** School of Mathematics, IPM, Tehran, Iran, 2013–present.
- **Chair of Combinatorics and Computing Group:** School of Mathematics, IPM, Tehran, Iran, 2020–present.
- **Scientific Council Member:** Algebra and Number Theory Group, School of Mathematics, IPM, Tehran, Iran, 2020–present.
- **Scientific Council Member:** IPM Combinatorics and Computing Group, School of Mathematics, IPM, Tehran, Iran, 2020–present.

## 9 Editorial boards, Professional Services

- **Editorial board membership**

- Editorial board member of [Designs, Codes and Cryptography](#), 2017 – present.
- Section editor of Number theory, Cryptography and Combinatorics of the [Bulletin of the Iranian Mathematical Society](#), 2022 – present.

- **Program Committees**

- **Scientific committee Member:** Workshop on the Arithmetic of Finite Fields (WAIFI) 2008, Siena, Italy, July 6–9, 2008.
- **Organizing and Scientific Committee Member:** IPMCCC 2015, IPM Combinatorics and Computing Conference, Apr. 29–30, 2015.
- **Organizing and Scientific Committee Member:** IPMCCC 2017, IPM Combinatorics and Computing Conference, May 16–18, 2017.
- **Organizing and Scientific Committee Member:** IPMCCC 2021, IPM Combinatorics and Computing Conference, May 17–20, 2021.

- **Organized Workshops**

- **Chair of Conference:** IPMCCC 2019, IPM Combinatorics and Computing Conference, Apr. 16–18, 2019.
- **Organizing Committee Member:** Spring School on Analytic Number Theory, May 24–31, 2016. (Co-organizer with Regis De la Breteche)

- **Refereeing**

- **Reviewer:** Mathematical Reviews, Since 2007.
- **Reviewer:**
  - \* **Mathematics Journals:** Acta Mathematica Sinica; Designs, Codes and Cryptography; Discrete Mathematics; Finite Fields and Their Applications; Graphs and Combinatorics; Journal of Number theory; Journal of Mathematical Cryptology; Linear Algebra and its Applications; Mathematics of Computation, Monatshefte fuer Mathematik; SIAM Journal on Discrete Mathematics ; Math Slovaca.
  - \* **Engineering and Computer Science Journals:** IEEEET on Computers, IEEEET on Information Theory; IEEEET on Wireless Communications; Information Processing Letters; International Journal of Computers and Applications; Journal of Computational and Applied Mathematics; Journal of Computers and System Sciences; Computación y Sistemas; IJEC (Iran)
  - \* **Conferences:** Asiacrypt 2005; WAIFI 2007; Eurocrypt 2008; CSR 2008 (Russia); Crypto 2009; Fq9; Fq11; LATIN 2010.

## 10 Research visits

- **Sabanci University**, Istanbul, Turkey, Apr 16 – Apr 21, 2022.

- **University of Surrey**, Guilford, UK, Oct 07 – Oct 15, 2019.
- **University of Waterloo**, Waterloo, Canada, Feb 1– Feb 28, 2019.
- **University of Waterloo**, Waterloo, Canada, Apr 28–Aug 8, 2017.
- **University College Dublin**, Dublin, Ireland, Oct. 4–17, 2015.
- **Institute Mittag-Leffler**, Stockholm, Sweden, July. 21–31, 2015.
- **Centre de Recerca Matematica (CRM)**, Barcelona, Spain, May 19–23, 2014.
- **Centre International Recontres Mathematiques (CIRM)**, Marseille, France, Feb. 3–7, 2014.
- **Johan Radon Institute for Computational and Applied Mathematics (RICAM)**, Linz, Austria, Dec. 9–13, 2013.
- **University of Waterloo**, Waterloo, Canada, May 11–21, 2013.
- **Banff International Research Center**, Banff, Canada, May 5–10, 2013.
- **University College Dublin**, Dublin, Ireland, Feb. 14– March 05, 2013.
- **University of Waterloo**, Waterloo, Canada, May 1–10, 2012.
- **University of Waterloo**, Waterloo, Canada, July 2011.
- **University of Waterloo**, Waterloo, Canada, July 2010
- **University of Waterloo**, Waterloo, Canada, Dec. 2006–Aug. 2007.
- **Banff International Research Center**, Banff, Canada, Nov. 18–23, 2006.
- **Banff International Research Center**, Banff, Canada, Nov. 5–10, 2005.

## 11 Talks

### Invited Talks

- *Distribution of Irreducible Polynomials over Finite Fields*. IPM math colloquium, Tehran, Iran, Feb. 21, 2024.
- *Mathematics: Protector of your valuable zeros and ones*. Online talk. Maryam Mirzakhani Foundation, Iran, Nov 9, 2021.
- *Polynomials over Finite Fields*. Algebra Day, MathHouse, Isfahan, Iran, Oct 29, 2020.
- *Supersingular isogeny graphs*. University of Surrey, Guilford, UK, Oct 09, 2019.
- *M-sequences and Some Conjectures on Exponential Sums*. Antalya Algebra Days XX, Izmir, Turkey, May 16–20, 2018.

- *M-sequences and some conjectures on exponential sums*. Spring School on Algebraic Geometry, IPM, Tehran, Iran, Apr. 8–13, 2017.
- *Elliptic curve and finite field DLP*. AKU, Tehran, Iran, May 09, 2016.
- *Algebra and Cryptography*. KNTU, Tehran, Iran, Apr. 25, 2016.
- *Elliptic curve and finite field DLP*. Workshop on Foundation of Cryptography, SBU, Jan. 6–8, 2016.
- *BCH codes, m-sequences and Fermat hypersurfaces*. UCD, Dublin, Ireland, Oct. 12, 2015.
- *Discrete Logarithm Problem in Small Characteristic Finite Fields*. Faculty of Electrical Engineering, Sharif University of Technology, Tehran, Iran, Feb. 1, 2015.
- *Discrete Logarithm Problem in Finite Fields*. Shahid Beheshti University, Tehran, Iran, Oct 28, 2014.
- *Sets with Many Pairs of Orthogonal Vectors over Finite Fields*. CRM, Barcelona, May 19, 2014.
- *Discrete Logarithm Problem and Cryptography*. Sharif University of Technology, Tehran, Iran, May 5, 2014.
- *On a Conjecture on m-Sequences*. CIRM, Luminy, Marseille, Feb 7, 2014.
- *Equations over Finite Fields*. Sharif University of Technology, Tehran, Iran, Nov. 9, 2013.
- *Algebra and Cryptography*. TMU, Tehran, Iran, Nov. 5, 2013.
- *Algebra and Cryptography*. Algebra Day, Isfahan, Iran, Oct. 31, 2013.
- *Elements of Large Orders in Finite Fields*. Antalya Algebra Days, Izmir, Turkey, May 24, 2013.
- *Distributions of Matrices over Finite Fields*. UCD, Dublin, Ireland Feb 28, 2013.
- *Algebraic Curves in Communications*. IPM, Tehran, Iran, Jan. 23, 2013.
- *On Isogeny Classes of Edwards Curves*. Frontiers of Mathematics: A conference dedicated to Siavash Shahshahani, Sharif U. of Tech., Tehran, Iran, Dec 26, 2012.
- *Curve Based Cryptography*. SBU, Tehran, Iran; May 26, 2009.
- *Curve Based Cryptography*. IPM; Tehran, Iran; November 7, 2007.
- *Curve Based Cryptography*. KNT university of technology, Tehran, Iran; October 30, 2007.
- *Curve Based Cryptography*. Forth Iranian Society of Cryptology Conference; October 18, 2007.
- *Orders of Gauss Periods in Finite Fields*. Tutte seminar, Department of C& O, University of Waterloo; July 13, 2007.

- *Quadratic Transformation of Irreducible Polynomials over Finite Fields.* in the workshop "Polynomials over Finite Fields and Applications", Banff, Alberta, Canada; November, 2006.
- *Weight Distribution of Irreducible Polynomials over Finite Fields.* in the workshop "Number Theory Inspired by Cryptography", Banff, Alberta, Canada; Nov 9, 2005.

## Contributed Talks

- *The slice-rank polynomial method in combinatorics.* IPM, Tehran, Iran, Dec 14, 2022.
- *Difference sets and tri-weight linear codes from trinomials over binary fields.* IPM, Tehran, Iran, Oct. 6, 2021.
- *Difference sets from finite fields.* IPM, Tehran, Iran, Oct. 8, 2020.
- *The stability of trinomials over finite fields.* IPM, Tehran, Iran, Nov. 27, 2019.
- *Isogeny Graphs.* IPM, Tehran, Iran, May 29, 2019.
- *Supersingular isogeny based Diffie-Hellman.* IPM, Tehran, Iran, May 16, 2018.
- *Cryptocurrencies.* IPM, Tehran, Iran, Oct. 25, 2017.
- *HIMMO key pre-distribution schemes.* IPM, Tehran, Iran, Apr. 12, 2017.
- *Irreducible polynomials with prescribed coefficients.* IPM, Tehran, Iran, Dec. 14, 2016.
- *Exponential and character sums over finite fields.* IPM, Tehran, Iran, Sep. 30, 2015.
- *DLP in small characteristic finite fields.* IPM, Tehran, Iran, Feb. 18, 2015.
- *Curves over Finite Fields and Linear Recurrence Sequences.* IPM, Tehran, Iran, Oct. 08, 2014.
- *Decomposing Jacobians of Curves over Finite Fields in the Absence of Algebraic Structure.* IPM, Tehran, Iran, May 08, 2014.
- *Equations over finite fields.* IPM, Tehran, Iran, Mar. 5, 2014.
- *Weights of Irreducible Polynomials over Finite Fields.* IPM, Tehran, Iran, Oct. 02, 2013.
- *Elements of large orders in Finite Fields.* IPM, Tehran, Iran, Apr. 17, 2013.
- *Generalization of a theorem of Carlitz.* IPM, Tehran, Iran, Oct. 10, 2012.
- *On Stable Quadratic Polynomials.* Department of Mathematical Sciences, UCD, Ireland, Number Theory Seminar; March 1, 2012.
- *On isogeny classes of Edwards curves over finite fields.* Department of Mathematical Sciences, UCD, Ireland, Algebra Seminar; February 14, 2011.
- *On the Distribution of the Number of Points on Algebraic Curves in Extensions of Finite Fields.* Department of Mathematical Sciences, UCD, Ireland, Number Theory Seminar; April 7, 2010.

- *Generalization of a theorem of Carlitz.* Department of Mathematical Sciences, UCD, Ireland, Algebra Seminar; March 22, 2010.
- *Orders of Gauss Periods in Finite Fields.* Ninth Conference on Finite Fields and Their Applications, UCD, Ireland; July 17, 2009.
- *On the Number of Graphs with Integral Spectrum.* IPM 20 - Combinatorics 2009, Tehran, Iran; May 16, 2009.
- *On the Number of Graphs with Integral Spectrum.* CSI workshop, UCD, Ireland; November 7, 2008.
- *On the Number of Graphs with Integral Spectrum.* Department of Mathematical Sciences, UCD, Ireland, Algebra Seminar; October 13, 2008.
- *On the Sum-Product Problem on Elliptic Curves.* CNTA 2008, Waterloo, Canada; July 18, 2008.
- *Weight Distribution of Irreducible Polynomials over Finite Fields.* URA Seminar, Department of C&O, University of Waterloo; June 29, 2005.
- *Weight Distribution of Irreducible Polynomials over Finite Fields.* CACR Seminar, University of Waterloo; May 19, 2005.