



Vahid Darvish

Curriculum Vitae

Employment

- 2020- **Associate Professor**, *NUIST Reading Academy*, Nanjing, China.
- 2019 **Associate Professor**, *Nanjing University of Information Science and Technology*, Nanjing, China.
- 2016–2019 **Researcher (Assistant Professor)**, Supported by National Elites Foundation, Tehran, Iran.
- 2012–2019 **Senior Lecturer (Researcher)**, *Shomal University*, Amol, Iran.

Education

- 2012–2016 **PhD of Mathematics (Mathematical Analysis)**, *University of Mazandaran*, Babolsar, Iran and *Victoria University*, Melbourne, Australia.
Supervisors Professor A. Taghavi & Professor S. S. Dragomir
- 2010–2012 **Master of Mathematics (Mathematical Analysis)**, *Amirkabir University of Technology*, Tehran, Iran.
Supervisor Professor S. M. Vaezpour
- 2006–2010 **Bachelor of Mathematics**, *University of Mazandaran*, Babolsar, Iran.

Honors and Awards

- Member of National Elites Foundation.
- Fully funded for three months internship by *Instituto de Matematica Pura e Aplicata (IMPA)* 2019.
- Selected for Talented Young Scientist Program, Nanjing University of Information Science and Technology (TYSP), third batch, funded 200K RMB for 2019.
- Funded for joining research project for a year on Automorphism-Based Graph Measures at University of Applied Science Upper Austria 2018.
- Fully funded by National Elites Foundation for two years as the best national graduated student 2016-2018.
- Visiting Fellow at Victoria University under supervision of Professor S. S. Dragomir, Nov 2014–May 2015. Fully funded by Ministry of Science and Technology, 11220 AUS\$.
- Ranked 67th among participants in Iranian undergraduate Nationwide Entrance Exam, 2010.

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Research Interest

- Operator Inequalities
- Variational inequality
- Equilibrium problem
- Optimization
- Partial Differential Equation

Publications (Journal Papers)

- J. A. Abuchu, G. C. Ugwunnadi, **V. Darvish**, and O. K. Narain, *Accelerated hybrid subgradient extragradient methods for solving bilevel split quasimonotone variational inequality problems*, **Optimization**, Accepted.
- **V. Darvish**, M. Razeghi, M. Nouri, *Maps preserving the bi-skew Jordan product on factor von Neumann algebras*, **Georgian Mathematical Journal**, DOI: 10.1515/gmj-2023-2050
- B. Ali, G. C. Ugwunnadi, M. S. Lawan, **V. Darvish**, *Solution of Generalized mixed equilibrium and Common fixed point problems for Bregman demigeneralized mappings*, **The Journal of Analysis**, DOI: 10.1007/s41478-023-00560-z
- B. Ali, M. S. Lawan, G. C. Ugwunnadi, A. R. Khan, **V. Darvish**, *A strong convergence theorem under a new shrinking projection method for nonlinear mappings in reflexive Banach spaces*, **Optimization**, DOI: 10.1080/02331934.2022.2076233
- S. G. Georgiev, **V. Darvish**, M. Razeghi, B. Kaymakçalan, *Inequalities for Strongly r -Convex Functions on Time Scales*, **Kragujevac Journal of Mathematics**, 49 (6) (2025) 933–948.
- S. G. Georgiev, **V. Darvish**, *The generalized Fourier convolution on time scales*, **Integral Transforms and Special Functions**, 34 (3), (2023) 211–227
- S. G. Georgiev, **V. Darvish**, E. R. Nwaeze, *Ostrowski type inequalities via exponentially s -convexity on time scales*, **Advances in the Theory of Nonlinear Analysis and its Application**, 6 (4) (2022) 502–512.
- H.A. Abass, G. C. Godwin, O. K. Narain, **V. Darvish**, *Inertial extragradient method for solving variational inequality and fixed point problems of a Bregman demigeneralized mapping in a reflexive Banach spaces*, **Numerical Functional Analysis and Optimization**, 43 (8) (2022) 933–960.
- **V. Darvish**, M. Nouri, M. Razeghi, *Non-linear bi-skew Jordan derivations on $*$ -algebra*, **Filomat**, 36 (10) (2022) 3231–3239.
- G. C. Ugwunnadi, M. H. Harbau, L. Y. Haruna, L. Y. Haruna, **V. Darvish**, J. C. Yao, *Inertial extrapolation method for solving split common fixed point problem and zeros of monotone operators in Hilbert spaces*, **Journal of Nonlinear and Convex Analysis**, 23 (4), (2022) 769–791.

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- S. G. Georgiev, **V. Darvish**, *Grüss type operator inequalities on time scales*, **Filomat**, 36 (2) (2022) 387–396.
- **V. Darvish**, T.A. Roushan, S. G. Georgiev, S. S. Dragomir, *Some integral inequalities for arithmetically and geometrically convex functions of two variables*, **Journal of Convex Analysis**, 29 (1) (2022) 205–220.
- **V. Darvish**, K. Jantakarn, A. Kaewcharoen, N. Biranvand, *A convergence theorem for solving generalized mixed equilibrium problems and finding fixed points of a weak Bregman relatively nonexpansive mappings in Banach spaces*, **Acta Mathematica Vietnamica**, 47 (2022) 553–569.
- S. G. Georgiev, **V. Darvish**, T.A. Roushan, *Some Inequalities for Exponentially Convex Functions on Time Scales*, **Math. Slovaca**. 71 (4) (2021) 925–940.
- **V. Darvish**, T. M. Tuyen, *A new algorithm for a system of generalized mixed equilibrium problems and finite family of Bregman nonexpansive mappings in Banach spaces*, **Fixed Point Theory**, 22 (1) (2021) 105–122.
- A. Taghavi, **V. Darvish**, T. A. Roushan, *Hermite-Hadamard type inequalities for operator geometrically convex functions II*, **Kragujevac Journal of Mathematics**, 45 (1) (2021) 115–125.
- **V. Darvish**, M. Nouri, M. Razeghi, *Nonlinear triple product $A^*B + B^*A$ derivations on $*$ -algebras*, **Mathematical Notes**, 108 (2) (2020) 179–187.
- **V. Darvish**, M. Nouri, M. Razeghi, A. Taghavi, *Nonlinear $*$ -Jordan triple derivation on prime $*$ -algebras*, **Rocky Mountain J. Mathematics**, 50 (2) (2020) 543–549.
- **V. Darvish**, X. Qin, T. M. Tuyen, J.C. Yao, *A strong convergence theorem for a system of generalized mixed equilibrium problems and a finite family of Bregman weak relatively nonexpansive mappings in Banach spaces*, **Journal of Nonlinear and Convex Analysis**, 20 (9) (2019) 1853–1873.
- A. Taghavi, T. A. Roushan, **V. Darvish**, *Some upper bounds for the Berezin number of Hilbert space operators*, **Filomat**, 33 (14) (2019) 4353–4360.
- **V. Darvish**, M. Nouri, M. Razeghi, A. Taghavi, *Maps preserving Jordan and $*$ -Jordan triple product on operator $*$ -algebras*, **Bull. Korean Math. Soc.** 56 (2) (2019) 451–459.
- A. Taghavi, **V. Darvish**, H. M. Nazari, S. S. Dragomir, *Some quantum f -divergence inequalities for convex functions of self-adjoint operators*, **Bol. Soc. Paran. Mat.**, 37(1) (2019) 125–139.
- A. Taghavi, M. Razeghi, **V. Darvish**, *Nonlinear $*$ -Lie n -tuple derivations on prime $*$ -algebras*, **Boll. Unione Mat. Ital.** (2019) 1-11.
- A. Taghavi, M. Nouri, M. Razeghi, **V. Darvish**, *Maps Preserving Triple Product $A^*B + BA^*$ on $*$ -Algebras*, **Asian-European Journal of Mathematics** 12 (1) (2019) 1950038.

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- A. Taghavi, M. Nouri, M. Razeghi, **V. Darvish**, *A Note on non-Linear \ast -Jordan derivations on \ast -algebras*, **Math. Slovaca**. 69 (3) (2019) 639–646.
- A. Taghavi, T. A. Roushan, **V. Darvish**, *Some refinements for the arithmetic-geometric mean and Cauchy-Schwarz matrix norm interpolating inequalities*, **Bull. Iranian. Math. Soc.** 44 (4) (2018) 927–936.
- A. Taghavi, M. Nouri, M. Razeghi, **V. Darvish**, *Non-Linear λ -Jordan triple \ast -derivation on prime \ast -algebras*, **Rocky Mountain J. Math.**, 48 (8) (2018) 2705–2716.
- A. Taghavi, M. Nouri, M. Razeghi, **V. Darvish**, *Maps Preserving Jordan Triple Product A^*B+BA^* on \ast -algebras*, **Korean J. Math.**, 26 (2018) 61-74.
- A. Taghavi, **V. Darvish**, H. M. Nazari, S. S. Dragomir, *Some singular value and unitarily invariant norm inequalities for Hilbert space operators*, **Ann Univ Ferrara**, 63 (2) (2017) 377-389.
- A. Taghavi, **V. Darvish**, H. Rohi, *Additivity of maps preserving products $AP \pm PA^*$ on C^* -algebras*, **Math. Slovaca**. 67 (1) (2017) 213–220.
- **V. Darvish**, S. S. Dragomir, H. M. Nazari, A. Taghavi *Some inequalities associated with the Hermite-Hadamard inequalities for operator h -convex functions*, **ACUTM**, 21 (2) (2017) doi.org/10.12697/ACUTM.2017.21.20
- A. Taghavi, **V. Darvish**, H. M. Nazari, *Some Reverse Inequalities on Hyperinner Product Spaces*, **Eurasian Math. J.**, 8 (4) (2017) 84-91.
- **V. Darvish**, H. M. Nazari, H. Rohi, A. Taghavi, *Maps preserving η -product $A^*B + \eta BA^*$ on C^* -algebras*, **Journal of Korean Mathematical Society**, 54(3) (2017) 867-876.
- **V. Darvish**, *A strong convergence theorem for finding a common fixed point of a finite family of Bregman nonexpansive mappings in Banach spaces which solves a generalized mixed equilibrium problem*, **Boll. Unione Mat. Ital.** 9 (2016) 421–434.
- A. Taghavi, **V. Darvish**, H. M. Nazari, S. S. Dragomir, *Some results on singular value inequalities of compact operators in Hilbert space*, **Math. Reports**, 18 (68) (2016) 545-555.
- A. Taghavi, **V. Darvish**, H. M. Nazari, S. S. Dragomir, *Hermite-Hadamard type inequalities for operator geometrically convex functions*, **Monatshefte für Mathematik** , 181 (2016) 187-203.
- A. Taghavi, H. M. Nazari, **V. Darvish**, *Some Hermite-Hadamard type integral inequalities for operator AG-preinvex functions*, **Acta Univ. Sapientiae, Mathematica**, 8 (2) (2016) 312-323.
- A. Taghavi, H. M. Nazari, **V. Darvish**, *Some reverse inequalities for matrices on indefinite inner product spaces*, **Indagationes Mathematicae**, 27 (1) (2016) 11–19.

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- A. Taghavi, R. Hosseinzadeh, **V. Darvish**, *Maps preserving the fixed points of triple Jordan products of operators*, **Indagationes Mathematicae**, 27 (3) (2016) 850-854.
- A. Taghavi, H. Rohi, **V. Darvish**, *Non-linear $*$ -Jordan derivations on von Neumann algebras*, **Linear and Multilinear Algebra**, 64 (3) (2016) 426-439.
- **V. Darvish**, *Strong convergence theorem for a system of generalized mixed equilibrium problems and finite family of Bregman nonexpansive mappings in Banach spaces*, **OPSEARCH**, 53 (2016) 584-603.
- **V. Darvish**, S. S. Dragomir, *Convergence of general composite iterative method for infinite family of nonexpansive mappings in Hilbert spaces*, **Commun. Nonlinear Anal.** 1 (1) (2016) 16-28.
- A. Taghavi, H. Rohi, **V. Darvish**, *Additivity of maps preserving Jordan η_* -products on C^* -algebras*, **Bull. Iranian. Math. Soc.** 41 (7) (2015) 107-116
- **V. Darvish**, S. M. Vaezpour, *Strong convergence of a new composite iterative method for equilibrium problems and fixed point problems in Hilbert spaces*, **Journal of advanced Mathematics and applications** 3 (2) (2014) 148-157.

Book Chapter

- **V. Darvish**, M. Nouri, M. Razeghi, *On the additivity of maps preserving triple Jordan product $A^*B + \lambda B^*A$ on $*$ -algebras*, *Frontiers in Functional Equations and Analytic Inequalities*, doi.org/10.1007/978-3-030-28950-8-6

Books

- *Numerical Computations*, 2nd edition, (with M. Pirdashti), (2013), Shomal University Press. (in Persian)
- *Analysis of agricultural problems by using Curve Expert software*, under press. (in Persian)

Invited Talks

- *How to be a good researcher*, Jinhua Normal University, Jinhua, China, 2019.
- *Singular value inequalities for compact operators*, Nanjing University of Information Science and Technology, Nanjing, China, 2019.
- *Maps preserving $*$ -Jordan product on prime C^* -algebras*, the 2nd seminar on operator theory and its applications, Shiraz, Iran, 2015.
- *Some new singular value inequalities for compact operators*, the 46th annual Iranian Mathematics Conference, Yazd, Iran, 2015.
- *Some results on singular value inequalities*, Kushyar Guilani Conference, University of Guilan, Rasht, Iran, 2014.
- *Fixed point preserving map of operators*, the 44th annual Iranian Mathematics Conference, Mashhad, Iran.
- *Convergence of general composite iterative method for infinite family of nonexpansive mappings in Hilbert spaces*, the 44th annual Iranian Mathematics Conference, Mashhad, Iran.

Poster Presentation

- *Strong convergence of a new composite iterative method for equilibrium problems and fixed point*

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problems in Hilbert spaces, the 44th annual Iranian Mathematics Conference, Mashhad, Iran.

Students Advising

- Tahere Azimi Roushan, PhD 2019, Unitarily invariant norms inequalities for numerical radius and arithmetic-geometric means.
- Mehran Razeghi, PhD 2019, $*$ -Jordan and $*$ -Li triple derivations on operator algebras.
- Mojtaba Noori, PhD 2018, Maps preserving Jordan and $*$ -Jordan triple product on operator $*$ -algebras.
- Mahdi Mirzaei, MSc 2017, Trace and determinant preserving maps of matrices.

Teaching Experiences

- Foundation of Mathematics, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2021,2022).
- Differential Equations, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2022) (Atmospheric Students).
- Differential Equations II, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2021) (Mathematics Students).
- Partial Differential Equations II, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2022).
- Partial Differential Equations I, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2021,2023).
- Differential Equations II, Reading Academy, Nanjing University of Information and Technology, Nanjing, China, (2021).
- Vector Calculus, Nanjing University of Information and Technology, Nanjing, China, (2019,2020,2021,2022) (Atmospheric Students and Mathematics Students).
- Mathematical Analysis, University of Mazandaran, Babolsar, Iran, (2018).
- Complex Variables, University of Mazandaran, Babolsar, Iran, (2018).
- Engineering Mathematical, University of Shomal, Amol, Iran, (2017).
- Advanced Numerical Computation, University of Shomal, Amol, Iran, (2016).
- Calculus I, University of Shomal, Amol, Iran, (2015).
- Differential Equations, University of Shomal, Amol, Iran, (2013).
- Calculus II, University of Shomal, Amol, Iran, (2016).
- Numerical Computations, University of Shomal, Amol, Iran, (2014).
- Foundations of Mathematics, University of Mazandaran, Babolsar, Iran, (2012).
- Calculus I, University of Mazandaran, Babolsar, Iran, (2012).
- Teaching Assistant for Dr. Ramezani, "Differential Equations, (Fall 2011)", Tehran, Iran, Amirkabir University of Technology. Giving and grading quizzes, grading homework, solving necessary or requested problems for students.

Reviewing

- Reviewer of Mathematical Review. Reviewer Number: 126767
- Reviewer of Zentralblatt MATH. Zbl. number: 1844
- Reviewer of Scientific Journal of Mathematics:
 - Nonlinear Analysis
 - Linear and Multilinear Algebra

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- Fixed Point Theory, (An International Journal on Fixed Point Theory, Computation and Applications)
- Journal of Inequalities and Applications
- Optimization, Taylor & Francis.
- Advances in Operator Theory
- Periodica Mathematica Hungarica
- Filomat
- Wavelet and Linear Algebra
- Journal of Hyperstructures
- Commun. Fac. Sci. Univ. Ank. Ser. A.

Academic Experiences

- Editor of "Mathematics Letters" (SciencePG).
- Member of Mathematical Society of University of Mazandaran, 2008.
- Editor of "Journal of Mathematics" in Mazandaran University, No. 3, Spring (2010).(Student magazine)
- Member of Mathematical Society of Amirkabir University of Technology, 2011

Computer and Programming Skills

- Mathematics software tools: MATLAB, Maple.
- Microsoft Office (Word, Excel, PowerPoint, Visio).
- Mathematical writing tools (Latex, Ftex, Xepersian, Beamer)
- Programming Languages: Pascal.

References

- Sever Silvestru Dragomir Victoria University sever.dragomir@vu.edu.au

- Jen-Chih Yao National Sun Yat-sen University yaojc@math.nsysu.edu.tw

- Seyed Mansour Vaezpour Amirkabir University vaez@aut.ac.ir