

Majid Noorian-Bidgoli

Rock Mechanics and Mining Engineering



دانشگاه کاشان

University of Kashan



مجید نوریان بیدگلی

• عضو هیات علمی، گروه مهندسی معدن، دانشکده مهندسی، دانشگاه کاشان

• محل تولد: آران و بیدگل

• وضعیت تاهل: متاهل

• رشته (گرایش): مهندسی معدن (مکانیک سنگ)

• مرتبه علمی: دانشیار

اطلاعات تماس:



۰۳۱۵۵۹۱۲۴۵۹



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❖ سوابق تحصیلی

مقطع تحصیلی	رشته (گرایش)	مدت تحصیل	کشور	دانشگاه
کارشناسی	مهندسی معدن (استخراج)	۱۳۷۵ - ۱۳۷۹	ایران	 دانشگاه یزد
کارشناسی ارشد	مهندسی معدن (استخراج)	۱۳۷۹ - ۱۳۸۲	ایران	 دانشگاه شهید باهنر کرمان
دکتری	مهندسی معدن (مکانیک سنگ)	۲۰۱۰ - ۲۰۱۴	سوئد	 KTH صنعتی

❖ سوابق پژوهشی دوره تحصیلی

مقطع تحصیلی	مشخصات پژوهش
کارشناسی	عنوان پروژه: Stability analysis of the crown pillar between stopes in the Koshk underground mine using FLAC
	استاد راهنما: مهندس غلامرضا شمسی
کارشناسی ارشد	عنوان پایان نامه: Stability analysis and support system design of the Lavasan water transfer tunnel
	استاد راهنما: دکتر کوروش شهریار، دکتر مهدی افسری نژاد
دکتری	عنوان رساله: Strength and deformability of fractured rocks
	استاد راهنما: Prof. Lanru Jing

❖ سوابق اجرایی (دانشگاهی)

عنوان	تاریخ
Dean of Faculty, Faculty of Engineering, University of Kashan, Kashan, Iran	2024 - present
Associate Prof., Department of Mining Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran	2024 - present
Educational Assistant, Faculty of Engineering, University of Kashan, Kashan, Iran	2016 - 2024
Chair of Rock Mechanics Laboratory, Department of Mining Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran	2015 - present
Assistant Prof., Department of Mining Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran	2015 - 2024
Instructor, Department of Mining Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran	2007 - 2010
Guest Lecturer, Department of Mining Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran	2003 - 2006
Guest Lecturer, Department of Mining Engineering, Islamic Azad University of Meymeh, Isfahan, Iran	2003 - 2005
عضو ثابت کارگروه بررسی صلاحیت علمی گروه مهندسی معدن، دانشکده مهندسی، دانشگاه کاشان	از ۱۳۹۵ تا ۱۴۰۱
عضو ثابت کارگروه بررسی صلاحیت علمی دانشکده مهندسی، دانشگاه کاشان	از ۱۴۰۱ تا کنون

❖ سوابق اجرایی (خارج از دانشگاه)

عنوان	تاریخ
مشاوره مهندسی	از سال ۱۳۹۴ تا کنون
عضو سازمان نظام مهندسی معدن استان اصفهان	از سال ۱۳۸۲ تا کنون
قرارگاه سازندگی خاتم الانبیاء(ص)- (موسسه حرا)	از سال ۱۳۸۰ تا ۱۳۸۲

زمینه‌ها و علائق تحقیقاتی

- Intact rock, rock mass, and discontinuity characteristics
- Strength and deformability of homogeneous/heterogeneous and isotropic/anisotropic rocks
- Numerical/mathematical/Physical modeling of failure mechanisms
- Coupled thermo-hydro-mechanical-chemical-biological processes in rock mechanics
- Design and stability analysis of surface and subsurface structures
- Geomechanics and Geoenvironmental in surface and underground mining
- Land subsidence/settlement engineering
- Surface and underground mining

تجارب آموزشی (تدریس دروس تخصصی)

مقطع تحصیلی	دروس
کارشناسی	دروس فعلی (مکانیک سنگ و آزمایشگاه، کنترل زمین و نگهداری، معدنکاری زیرزمینی، تهویه در معادن، پروژه) دروس قبلی (ترابری در معادن، روش های استخراج روباز، اصول طراحی معادن، نقشه برداری معدنی، آبکشی در معادن، خدمات فنی در معادن، استخراج سنگ های ساختمانی، استاتیک، مقاومت مصالح)
کارشناسی ارشد	Stability of underground excavations, Design and stability analysis of slope, Advanced underground mining, Numerical modeling
دکتری	Advanced rock mechanics, Advanced rock dynamics, Coupling processes in rock mechanics, Advanced numerical analysis methods, Optimization techniques of underground mining, Land subsidence engineering

عضویت در مجامع علمی (ملی-بین‌المللی)

- International Society for Rock Mechanics (ISRM)
- Iranian Society of Rock Mechanics (IRSRM)
- Iranian Petroleum Geomechanics Association (IRPGA)
- Iranian Society of Mining Engineering (IRSME)
- Iranian Tunneling Association (IRTA)
- Iranian Mining Engineering Organization (IMEO)
- Alumni Association of KTH Royal Institute of Technology in Stockholm

❖ داوری علمی برای مجلات تخصصی

- Rock Mechanics and Mining Science Journal, Elsevier
- Rock Mechanics and Geotechnical Engineering Journal, Elsevier
- Rock Mechanics and Rock Engineering, Springer
- Computers and Geotechnics Journal, Elsevier
- Arabian Journal of Geosciences, Springer
- Mountain Science Journal, Elsevier
- Journal of Analytical and Numerical Methods in Mining Engineering, Scopus

❖ کارگاه‌های تخصصی (ملی-بین‌المللی)

- Rock mechanics solutions for ornamental rock protection and archaeological site conservation, 26 May, 2014. Vigo, Spain.
- Rock mechanics for deep underground excavations in hard rock, 27 May, 2012, Stockholm, Sweden.
- Rock Testing and Instrumentation, Coordinator by Prof. Vutukuri V.S., 14-15 May, 2003, Shahid Bahonar University, Kerman, Iran.

❖ طرح‌های تحقیقاتی دانشگاهی

- Feasibility study of urban underground spaces with the aim of passive defense and sustainable development (Case study: Kashan city), 2020, University of Kashan, Kashan, Iran
- Investigation of underground spaces in rock for the storage of hydrocarbon materials (Case study: Nasrabad salt dome), 2021, University of Kashan, Kashan, Iran

❖ مهارت زبان

فارسی - انگلیسی

❖ دانشجویان فارغ التحصیل (مقطع کارشناسی ارشد)

مستولیت	دانشجو	تاریخ دفاع	عنوان پایان نامه
استاد مشاور	بهروز حیدریان خوراسگانی	۹۵/۱۱/۲۴	مطالعه مدل‌های پیش‌بینی بهره‌وری TBM با توجه به شرایط ژئوتکنیکی توده سنگ - مطالعه موردی تونل انتقال آب گلاب
استاد مشاور	رضا پوریانی	۹۶/۴/۲۰	کنترل نشست ناشی از روشهای مختلف تونلسازی در محیط های شهری با استفاده از روش عددی - مطالعه موردی: تونل مترو قم (خط A)
استاد راهنما	بنفشه سادات لاجوردی	۹۶/۱۲/۱۵	بررسی عددی تاثیر مواد پرکننده و جهت داری ناپیوستگی بر مقاومت فشاری تک محوری سنگ
استاد راهنما	محبوبه کوچکی	۹۷/۶/۲۵	بررسی تاثیر مقیاس، نرخ بارگذاری و فشار جانبی بر مقاومت فشاری سنگ آهک به کمک مدل‌سازی عددی
استاد راهنما دوم	حمیدرضا حیدری	۹۸/۶/۳۰	ارزیابی قابلیت اطمینان در ماشین های بارگیری معادن روباز - مطالعه موردی لودرهای معدن سنگ آهن احیاء سپاهان
استاد راهنما	مجتبی انصاری شاد	۹۸/۱۰/۲۲	تحلیل عددی نشست زمین ناشی از برداشت آب از چاه های واقع در شهر کاشان
استاد راهنما	مجتبی خدائی	۹۸/۱۱/۱۳	تحلیل پایداری فضاهای زیرزمینی دست کند قدیمی (مطالعه موردی: شهر زیرزمینی نوش آباد)
استاد راهنما	بهنام کریمی خواجه لنگی	۹۸/۱۱/۱۳	مطالعه تاثیر ناهمسانگردی بر پایداری و تغییر شکل پذیری اطراف یک حفریه واقع در توده سنگ درزه دار
استاد راهنما	محمد فتحی	۹۹/۶/۳۰	تحلیل عددی نشست زمین ناشی از افت سطح ایستابی (مطالعه موردی: دشت کاشان)
استاد راهنما	حسین جعفری	۱۴۰۱/۱۱/۳۰	تحلیل پایداری فضاهای زیرزمینی معدن سرب و روی تاجکوه به روش عددی

استاد راهنما	امیر یسلایانی	۱۴۰۱/۱۱/۳۰	بررسی عددی تاثیر خستگی بر مقاومت و تغییر شکل پذیری سنگ
استاد راهنما	علی ابراهیم شاهی	۱۴۰۲/۶/۲۸	بررسی عددی تاثیر ناهمسانگردی بر روی پایداری شیب توده سنگ درزه دار
استاد راهنما	محمدحسین سقازاده	۱۴۰۲/۶/۲۸	بررسی تاثیر ناپیوستگی های توده سنگ بر خردایش سنگ ناشی از آتشفشاری به روش تحلیل تصاویر دیجیتال (مطالعه موردی: معدن سنگ آهن توت)
استاد راهنما	ابراهیم مهدوی	۱۴۰۲/۶/۲۸	طراحی و تحلیل ژئومکانیکی کارگاه استخراج در تغییر روش معدن کاری از کواری به زیرزمینی (مطالعه موردی: معدن سنگ ساختمانی دهبید)
استاد راهنما	میثم فرزام امیرابراهیمی	۱۴۰۲/۷/۱۰	ارزیابی عددی نشست زمین در دشت میناب بر اثر برداشت آب های زیرزمینی
استاد راهنما دوم	امیرحسین محمدی راد	۱۴۰۲/۱۱/۲۸	بررسی قابلیت برش سنگ های ساختمانی با توجه به پارامتر های فیزیکی و مکانیکی و ارائه مدلی برای پیش بینی قابلیت برش معدن سنگ تراورتن آبگرم محلات
استاد راهنما	محمدرضا رضایی	۱۴۰۲/۱۱/۲۹	دستیابی به الگوی آتشفشاری بهینه به کمک مدل های تصمیم گیری چند معیاره (مطالعه موردی: معدن مس میدوک)
استاد راهنما دوم	تهمینه کارگر دولت آبادی	۱۴۰۲/۱۱/۲۹	شناسایی و رتبه بندی مشکلات فنی و اقتصادی صادرات سنگ ساختمانی به چین و هند

❖ دانشجویان فارغ التحصیل (مقطع دکتری)

مسئولیت	دانشجو	تاریخ دفاع	عنوان رساله
استاد راهنما دوم	محسن آل بویه	۱۴۰۳/۶/۲۵	مطالعات پارامتریک و ارزیابی اثر چیدمان ابزارهای برش در دستگاه حفاری TBM
استاد راهنما	هومن رضایی	۱۴۰۳/۱۰/۱۸	کنترل نشست ناشی از روشهای مختلف تونلسازی در محیط های شهری با استفاده از روش عددی-مطالعه موردی: تونل مترو قم (خط A)

- Rezaee H, **Noorian-Bidgoli M**. 2025. Numerical and experimental investigation of the influence of temperature and grain size on the fracture behavior of rock. *Journal of Rock Mechanics and Geotechnical Engineering*, 17(2): 1102-1119.
- Mokhtarian H, **Noorian-Bidgoli M**, Moomivand H. 2025. Experimental investigation of the joint geometry effects on the mechanical behavior and confined compressive strength of jointed rock masses. *Journal of Petroleum Geomechanics*, 7(4): 38-46.
- Jahanmiri S, **Noorian-Bidgoli M**. 2025. Optimizing tunnel boring machine penetration rate prediction using gene expression programming and whale optimization algorithms. *Modeling Earth Systems and Environment*, 11(2): 1-22.
- Alebouyeh M, Aalianvari A, **Noorian-Bidgoli M**. 2024. Evaluation of the effect of spiral cutter head layout on the performance of mechanized TBM. *Tunnelling and Underground Space Engineering Journal*, 11(3): 1-18.
- Jahanmiri S, **Noorian-Bidgoli M**. 2024. Land subsidence prediction in coal mining using machine learning models and optimization techniques. *Environmental Science and Pollution Research*, 31(22): 31942-31966.
- Alebouyeh M, **Noorian-Bidgoli M**, Aalianvari A. 2024. Evaluation of tunnel boring machine (TBM) based on different cutting tool layouts in the cutter-head. *Journal of Analytical and Numerical Methods in Mining Engineering (ANM)*, 14(39): 27-45.
- Dallaki A, **Noorian-Bidgoli M**. 2024. Design and implementation of the retaining structure of large-scale underground spaces (Case study: Keshavarz Square station of Qom metro). *The 9th Iranian Rock Mechanics Conference, IRMC9*, 1-11.
- Golmohammadi S, **Noorian-Bidgoli M**. 2024. Evaluation of flyrock phenomenon due to blasting by the support vector machine method (Case study: Limestone mine of Kangan Tang-e Zendan). *The Fourth National Conference on Data Mining in Earth Sciences*, 1-9.
- Dallaki A, **Noorian-Bidgoli M**. 2024. Determining the optimal mixing design of two-component slurry in mechanized tunnel (Case study: Line 7 project of Tehran metro). *The 9th Iranian Rock Mechanics Conference, IRMC9*, 1-11. *The 42st National Conference of Earth Sciences*, 1-13.
- **Noorian-Bidgoli M**, Golmohammadi S. 2024. A combination model of multiple regression and rock engineering systems (MR-RES) to identify main parameters' effect value on tunnel face advance. *Journal of Analytical and Numerical Methods in Mining Engineering (ANM)*, 13(37): 57-67.
- Aalianvari A, Jahanmiri S, **Noorian-Bidgoli M**. 2023. Critical Review of Scientific Studies on Rock Brittleness Index: An Overview Analysis. *Journal of Geomine*, 1(3): 103-110.
- **Noorian-Bidgoli M**, Behnia B. 2023. Experimental evaluation of the thermal effect on dynamic behavior of travertine. *International Journal of Protective Structures*.
- Golmohammadi S, **Noorian-Bidgoli M**. 2023. Improvement of the Q-System Using the Rock Engineering System: A Case Study of Water Conveyor Tunnel of Azad Dam. *International Journal of Geotechnical and Geological Engineering*, 17(5).
- Abroshan M.R, **Noorian-Bidgoli M**. 2023. Numerical investigation of the effect of impact on the rockfall protective embankment reinforced with geogrid. *International Journal of Geomechanics and Engineering*, 33(2).
- Dallaki A, **Noorian-Bidgoli M**. 2023. Risk assessment of buildings adjacent to inner-city

tunnels (Case study: Saidi station of Qom Metro). The 14th Iranian Tunneling Conference, 1-10.

- Mohammadi Firouz F, **Noorian-Bidgoli M.** 2023. Numerical investigation of the effect of drilling mud pressure on the geomechanical stability of an oil well and determining the optimal window of drilling mud. The 4th National Petroleum Geomechanics Conference, 1-11.
- Khodaei M, **Noorian-Bidgoli M.** 2023. Stability analysis of ancient man-made underground spaces (Case study: Nushabad underground city). Journal of Research on Archaeometry, 2(8): 47-64.
- Yavari M.D, **Noorian-Bidgoli M.** 2022. Investigating the coupled effect of hydro-mechanical pressures on the fracture behavior of the jointed concrete using numerical modeling. Second Conference on Mechanical Behavior Modeling of Materials, 1-9.
- Dallaki A, **Noorian-Bidgoli M.** 2022. Numerical stability analysis of station wall at the entrance and exit points of TBM-EPB (Case study: Kamkar Castle station, Qom metro tunnel). The 8th Iranian Rock Mechanics Conference, 1-9.
- Rezaee H, **Noorian-Bidgoli M.** 2022. Investigation the effect of dynamic loading on the deformation of ancient man-made underground spaces. Journal of Earthquakes and Structures, 22(3): 227-285.
- Ansari-Shad M, **Noorian-Bidgoli M.** 2022. Numerical analysis of land subsidence due to water withdrawal from pumping well in urban areas. Journal of Water and Wastewater Science and Engineering (JWWSE), 7(2), 42-52.
- Golmohammadi S, **Noorian-Bidgoli M.** 2022. Design of stable slope of Almas-Kavir Toot iron mine. The 10th Iranian Mining Engineering Conference, 1-9.
- Dallaki A, **Noorian-Bidgoli M,** Alvandi, H. 2022. Numerical study to determine the optimum pressure of tunnel face in EPB-TBM (Case study: Line A of Qom urban railway project). The 10th Iranian Mining Engineering Conference, 1-9.
- Noorinezhad A, **Noorian-Bidgoli M.** 2022. Hydro-mechanical analysis of stability of the Golab water conveyance tunnel. The 40th National Conference of Earth Sciences, 1-8.
- Golmohammadi S, **Noorian-Bidgoli M.** 2022. Reserve evaluation and design of the final pit limit of Almas-Kavir Toot iron mine. The 40th National Conference of Earth Sciences, 1-12.
- Karimi-Khajelangi B, **Noorian-Bidgoli M.** 2022. Numerical study of the effect of rock anisotropy on stresses around an opening located in the fractured rock mass. Journal of Petroleum Science and Engineering, 208: 1-11.
- Fathi M, **Noorian-Bidgoli M.** 2022. Evaluation of land subsidence due to water-level decline in Kashan plain. Journal of Water and Wastewater Science and Engineering (JWWSE), 6(4): 45-57.
- Bozorgi F, Aalianvari A, **Noorian-Bidgoli M.** 2021. Stability analysis and selection of optimal support system of adjacent large-scale cavern-A case study. Journal of Dam and Hydroelectric PowerPlant, 8(30): 1-11.
- Dallaki A, **Noorian-Bidgoli M,** Alvandi, H. 2021. Design of optimum ventilation system during operation in urban train stations (Case study: The third station of Khordad "A12" of the Qom metro project). The 7th International Congress on Civil Engineering, Architecture and Urban Development, 1-15.
- Karimi-Khajelangi B, **Noorian-Bidgoli M.** 2021. Analysis of effective parameters on the induced stresses around the opening located in the fractured rock mass. The Second National Conference on Data Mining in Earth Sciences, 1-9.

- Golmohammadi S, **Noorian-Bidgoli M**, Biabangardi M, Nezam-Hosseini, A. 2021. Investigation of effective parameters in the production rate of processing unit of the Kavir Toot Almas iron mine using multiple regressions. The Second National Conference on Data Mining in Earth Sciences, 1-9.
- Alghasi-Chegeni M, **Noorian-Bidgoli M**. 2021. Coupled hydromechanics modeling of fractured rock mass for water transfer tunnel of the Seymareh dam. The 9th Iranian Mining Engineering Conference and 6th International Mine & Mining Industries Congress, 1-11.
- Rezaee H, **Noorian-Bidgoli M**. 2021. Numerical hydro-mechanical analysis of stress-deformation of embankment dam. The 19th Iranian Hydraulic Conference, 1-8.
- Behnia B, **Noorian-Bidgoli M**. 2020. Experimental study of the effect of temperature changes on the dynamic behavior of rock (Case study: Torshab travertine stone). The 7th Iranian Rock Mechanics Conference, 1-8.
- Golmohammadi S, **Noorian-Bidgoli M**, Moradi S. 2020. Improvement of the Q classification system using rock engineering system (Case study: Water tunnel of Azad dam). The 7th Iranian Rock Mechanics Conference, 1-8.
- Alghasi-Chegeni M, **Noorian-Bidgoli M**. 2020. Numerical analysis of deformability behavior of tunnel in the fractured rock mass (Case study: Water intake tunnel of Saymareh Dam). The 23rd Symposium of Geological Society of Iran, 1-11.
- Noorinezhad A, **Noorian-Bidgoli M**. 2020. Numerical analysis of static load applied to the tunnel's precast concrete segment (Case study: Shiraz metro Line 2 tunnel). The 23rd Symposium of Geological Society of Iran, 1-12.
- Pouryani R, Aalianvari A, **Noorian-Bidgoli M**. 2019. Control of settlement affected excavation by TBM-EPB with ADECO-RS approach in urban area using numerical analysis-A case study: Qom subway line A. Tunnelling and Underground Space Engineering Journal, 9(1): 1-15.
- Moghaddasi MR, **Noorian-Bidgoli M**. 2018. ICA-ANN, ANN and multiple regression models for prediction of surface settlement caused by tunneling. Tunnelling and Underground Space Journal, 79: 197-209.
- Lajavardi B, **Noorian-Bidgoli M**. 2016. Sensitivity analysis of joints orientation and support in stability of the underground structures roof. The 4th International Congress on Civil Engineering, Architecture and Urban Development. Shahid Beheshti University, Tehran, Iran.
- Kaviani M.A, **Noorian-Bidgoli M**. 2016. Support system design of the TBM work shaft of Isfahan urban railway tunnel (Line 2). The 4th International Congress on Civil Engineering, Architecture and Urban Development. Shahid Beheshti University, Tehran, Iran.
- Hasanipanah M, **Noorian-Bidgoli M**, Armaghani, D.J, and Khamesi H. 2016. Feasibility of PSO-ANN model for predicting surface settlement caused by tunneling. Engineering with Computers Journal, 32: 705. 1-11.
- **Noorian-Bidgoli M**. 2016. Using of underground mines as economic multi-purpose structures of passive defense. The national conference on passive defense and sustainable development. Tehran, Iran.
- **Noorian-Bidgoli M**, Kochaki M. 2016. Design and stability analysis of underground structures in rock with respect to passive defense. The national conference on passive defense and sustainable development. Tehran, Iran.
- Kaviani M.A, Bolboli M, **Noorian-Bidgoli M**, Zamzam M.S. 2016. Stability analysis of the TBM work shaft of Isfahan urban railway tunnel (Line 2) using the FLAC3D software. The

- 10th student Mining Engineering conference. University of Kashan, Iran.
- **Noorian-Bidgoli M.** 2015. Reviewer Acknowledgement. *Journal of Rock Mechanics and Geotechnical Engineering*. 7(6): 726-726.
 - **Noorian-Bidgoli M, Jing L.** 2015. Stochastic analysis of strength and deformability of fractured rocks using multi-fracture system realizations. *International Journal of Rock Mechanics and Mining Sciences*. 78: 108-117.
 - **Noorian-Bidgoli M, Jing L.** 2014. Water pressure effects on strength and deformability of fractured rocks under low confining pressures. *Rock Mechanics and Rock Engineering Journal*. DOI:10.1007/s00603-014-0628-3. 1-15.
 - **Noorian-Bidgoli M, Jing L.** 2014. Effects of loading conditions on strength and deformability of fractured rocks- a numerical study. In *Proceeding of the European rock mechanics symposium*. ISRM. Rock engineering and rock mechanics: structures in and on rock masses. Vigo, Spain. 365-368.
 - **Noorian-Bidgoli M, Jing L.** 2014. Anisotropy of strength and deformability of fractured rocks. *Journal of Rock Mechanics and Geotechnical Engineering*. 6(1):156-164.
 - **Noorian-Bidgoli M, Zhao Z, Jing L.** 2013. Numerical evaluation of strength and deformability of fractured rocks. *Journal of Rock Mechanics and Geotechnical Engineering*. 5(6):419-430.
 - **Hakimiyan M, Maleki-Nejad H, Noorian-Bidgoli M.** 2012. Stability analysis of rock wedges for the Isfahan subway tunnel using the Unwedge software. In *Proceeding of the 4th Iranian Mining Engineering Conference*. Tehran, Iran.
 - **Taei S, Noorian-Bidgoli M.** 2012. Design and optimization of the belt conveyor transport system- A case study: Semirom fireclay mine. In *Proceeding of the 1st Iranian Mining Technologies Conference*. Yazd, Iran.
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