

SARINA SHAHHOSSEINI

EDUCATION

2021 - PRESENT	Arizona State University, USA PH.D. STUDENT IN CIVIL AND ENVIRONMENTAL ENGINEERING, CENTER OF BIO-MEDIATED AND, BIO-INSPIRED GEOTECHNICS,
2016 - 2021	Amirkabir University of Technology (Tehran Polytechnic), Iran B.SC IN CIVIL AND ENVIRONMENTAL ENGINEERING, (GPA=3.45/4)
2013 - 2016	National Organization For Development Of Exceptional Talents High school MATHEMATICS AND PHYSICS, (GPA: 19.72/20) SCHOOL SECONDARY SCHOOL DIPLOMA, Iran

RESEARCHES

2021 - PRESENT	Self-Burrowing Robotics Adviser: Prof. Julian Tao <ul style="list-style-type: none">Evaluating the design of a bio-inspired burrowing robot by simulating of the robot- granular media interaction
2019 - 2020	Evaluation of Clay Mines to Use Calcined Clay as Supplementary Cementitious Material Adviser: Prof. Ali Akbar Ramezaniappour <ul style="list-style-type: none">Researched clay samples from seven mines and created concrete mortar based on ASTM C109Examined samples by doing XRD, TGA, compressive strengthEstablished the difference in effectiveness as supplementary cementitious material based on the amount of matakaolin and crystalline level
2020 - 2021	The Use of Calcined Clay and Limestone to Improve the Resistance of Cement against Magnesium Sulfate Attack in Different Temperatures Adviser: Prof. Ali Akbar Ramezaniappour <ul style="list-style-type: none">Researched clay samples and created concrete mortar based on ASTM C109Exposed samples to room temperature and low temperature for eleven months, in magnesium sulfate solutionExamined samples by doing XRD, compressive strength test, alternations in length and weight, volumetric water absorption testFound the difference in effectiveness as supplementary cementitious material based on the amount of kaolinite and limestone in different temperatures

COURSE PROJECTS

2020- 2021	Design of Concrete and Steel Frame Residential Building <ul style="list-style-type: none">Designed Floor Plan by AutoCadCreated initial model in ETABS and analyzing the results, designed beams and columnsDesigned the foundation by using SAFE software
JULY 2020	Seismic Design of Reinforced Concrete and Steel Residential Building <ul style="list-style-type: none">Created initial model in ETABS, analyzed the results and designed beams and columns based on ACI 318-19, seismic provisions for structural steel buildings, AISC 360-10 and AISC 341-16Designed and checked Longitudinal and transverse reinforcement in concrete buildingDesigned special reinforced concrete shear wall based on ACI 318Controlled requirements for Panel zone shear strength, Beam-column proportion and Continuity plates

PUBLICATIONS

- MAY 2020 | AA Ramezaniapour, A Zolfagharnasab, FB Zadeh, S Shahhosseini, AR Kohankhaki. (2020, May 27-28). "Evaluation of Different Calcined Clay samples to use as Supplementary Cementitious Material in Concrete" .12Th National Congress of Civil Engineering, Tehran, Tehran, Iran,(In Persian)
- JULY 2021 | AA Ramezaniapour, AR Kohankhaki, S Shahhosseini, A Deheshti. (2020, July 12-14). "Durability Evaluation of Concrete Clay Mortars In Magnesium And Sodium Sulfate Solution" . Submitted To 12Th International Congress of Civil Engineering, Tehran, Tehran, Iran,(In Persian)

AWARDS

- JULY 2014 | **RoboCupJunior Soccer Open Weight**
Second Place in Best Individual Game Player, Jaoa Pessoa, Brazil
- APRIL 2014 | **IRANOPEN 2014**
Second Place in Junior Soccer Open, Tehran, Iran
- SEPTEMBER 2014 | **3rd Sharif Open Robotics Competition: SharifCup**
First Place in Junior Soccer Open Weight, Tehran, Iran

PROFESSIONAL EXPERIENCE

- 2021 - PRESENT | **Graduate Research Assistant**
Arizona State University, USA
Using Project Chrono platform to simulate the bio-inspired burrowing robot movement and its interaction with granular material
- 2019 -2021 | **Undergraduate Research Assistant**
Amirkabir university of technology, Tehran, Iran
Gained practical experienced working in Ce- concrete lab of Amirkabir university of technology
Learned how to work with different lab equipment in order to do tests such Compression Strength, Length Measuring and Water Absorption
- APRIL 2018 | **Tutoring Experience**
Poordastmalchi education center
Answered students questions while they were studying for Konkoor, Iranian University Entrance

CERTIFICATES

- NOVEMBER 2019 | Amirkabir university of technology
Health, Safety and Environment
- Learned knowledge and awareness of HSE in laboratory work
 - Learned First aid care

COMPUTER SKILLS

- GENERAL KNOWLEDGE: MATLAB, C++,FORTRAN,PRESI, \LaTeX
- MODELLING PROGRAMS: ETABS, SAFE, CAD, CIVIL3D, Aimsun

LANGUAGES

- PERSIAN: Native
- ENGLISH: Fluent (TOEFL iBT: 101/120)