

# CURRICULUM VITAE



**Kianoosh SAMIMI**

**Ph.D. in Civil Engineering**

**Assistant professor- Construction Materials Researcher**

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## **MY SPECIALTY IN CIVIL ENGINEERING:**

Construction with earth, Green Concrete, Transport properties, Mechanical strength, Durability of structures in aggressive environment, and Sustainable Development.

<https://scholar.google.com/citations?user=chSBqzgAAAAJ&hl=en&oi=ao>

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## **EDUCATION**

### **Ph.D. in CIVIL ENGINEERING**

**INSA de Rennes, FRANCE.**

L'école doctorale Sciences de la Matière.

Laboratoire de Génie Civil et Génie Mécanique (LGCGM),

**Dissertation title:** Contribution to the study on the durability of SCCs in aggressive media: effects of natural pozzolans.

### **MASTER OF PROJECT ENGINEERING**

**MECHANICAL AND CIVIL ENGINEERING,**

**Université Paris-Est Marne-la-Vallée – École nationale des ponts et chaussées.**

## **PUBLICATIONS**

1. Kianoosh Samimi\*, Mahyar Pakan, Javad Eslami, and Leila Asgharnejad. "Investigation of two different water-dispersed graphene on the performance of graphene/cement paste: Surfactant and superplasticizer effect." *Construction and Building Materials* 349 (2022): 128756. <https://doi.org/10.1016/j.conbuildmat.2022.128756>
2. Kianoosh Samimi\*, and Maziar Zareechian. "Chemical resistance of synthesized graphene-modified cement paste containing natural pozzolans to acid attack." *Journal of Building Engineering* (2022): 105174. <https://doi.org/10.1016/j.jobe.2022.105174>
3. Kianoosh Samimi\*, and Mahyar Pakan. "Study of mechanical properties and microstructure of cement paste containing graphene based on surfactant." *Journal of Structural and Construction Engineering* (2022). <https://doi.org/10.22065/JSCE.2022.333259.2751>

4. Kianoosh Samimi\*, Masoud Farahani, Mahyar Pakan, and Ali Akbar Shirzadi Javid. "Influence of Pumice and Metakaolin on Compressive Strength and Durability of Concrete in Acidic Media and on Chloride Resistance under Immersion and Tidal Conditions." Iranian Journal of Science and Technology, Transactions of Civil Engineering (2021): 1-23. <https://doi.org/10.1007/s40996-021-00637-4>
5. Kianoosh Samimi\*, Mahyar Pakan, and Amirhossein Firoozbakht. "Investigation of mechanical behavior of fibrous concrete containing pumice and metakaolin and chemical resistance to acid attack." Amirkabir Journal of Civil Engineering (2021). <https://doi.org/10.22060/CEEJ.2021.20026.7319>
6. Besheli, Aref Ebrahimi, Kianoosh Samimi\*, Fereidoon Moghadas Nejad, and Ehsan Darvishan. "Improving concrete pavement performance in relation to combined effects of freeze–thaw cycles and de-icing salt." Construction and Building Materials 277 (2021): 122273. <https://doi.org/10.1016/j.conbuildmat.2021.122273>
7. Kianoosh Samimi\* and Ali Akbar Shirzadi Javid. "Magnesium sulfate (MgSO<sub>4</sub>) attack and chloride isothermal effects on the self-consolidating concrete containing metakaolin and zeolite." Iranian Journal of Science and Technology, Transactions of Civil Engineering 45, no. 1 (2021): 165-180. <https://doi.org/10.1007/s40996-020-00398-6>
8. Kianoosh Samimi\*, Gholam Reza Dehghan Kamaragi, and Robert Le Roy. "Microstructure, thermal analysis and chloride penetration of self-compacting concrete under different conditions." Magazine of Concrete Research 71, no. 3 (2019): 126-1. <https://doi.org/10.1680/jmacr.17.00367>
9. Kianoosh Samimi\*, Siham Kamali-Bernard, and Ali Akbar Maghsoudi. "Durability of self-compacting concrete containing pumice and zeolite against acid attack, carbonation and marine environment." Construction and building materials 165 (2018): 247-263. <https://doi.org/10.1016/j.conbuildmat.2017.12.235>
10. Kianoosh Samimi\*, Siham Kamali-Bernard, Ali Akbar Maghsoudi, Mohammad Maghsoudi, and Hocine Siad. "Influence of pumice and zeolite on compressive strength, transport properties and resistance to chloride penetration of high strength self-compacting concretes." Construction and building materials 151 (2017): 292-311. <https://doi.org/10.1016/j.conbuildmat.2017.06.071>
11. Kianoosh Samimi\*, Helia Sharafi, Essolé Padayodi, and Seyed Amir Bahrani. "Study of micro particles deposition in ribbed channel: A numerical investigation in turbulent airflow." Mechanics & Industry 15, no. 1 (2014): 75-80. <https://doi.org/10.1051/meca/2014011>

## TEACHING STATEMENT

### **I have 4 years experiences in teaching the field below ASSISTANT PROFESSOR AT SHAHID BEHESHTI UNIVERSITY**

- Concrete technology for the first-year master.
- Construction procedures for the first-year master.
- Earth Concrete for the first-year master.
- Sustainable development, Green Buildings for the first-year master.

- Construction management Principles for the third-year license.
- Construction materials for the second-year license.

## NUMERICAL SKILLS

Windows, Photoshop, Microsoft Office. Adobe After Effects, Adobe Audition, Photoshop, Painter, Adobe Acrobat pro, AutoCad, Etabs, Robot, OriginPro.

## SUPERVISION ACTIVITIES

**I have 5 years experiences in research supervisor the field below:**

1. Director of a Master's thesis on the subject " Performances evaluation of mechanical, seismic, and transport properties in clay composites for development of green concrete to reduce greenhouse gas emissions.", 2022, Shahid Beheshti University, Tehran – IRAN.
2. Director of doctoral student thesis on the subject " Feasibility study of using green concrete in building Industry with the approach of improving mechanical properties, seismic and thermal behavior " 2021, Shahid Beheshti University, Tehran - IRAN.
3. Director of a Master's thesis on the subject " Improve the mechanical properties and durability of cementitious composites in seismic and aggressive marine and industrial environments.", 2021, Shahid Beheshti University, Tehran – IRAN.
4. Co-supervisor of a Master's thesis on the subject "Improving the seismic properties of concrete using a nanosilica additive", 2019-2020, Shahid Beheshti University, Tehran - IRAN.
5. Co-director of doctoral student thesis on the subject "Study of shrinkage and transport property of modified concrete to improve the durability of rigid pavements", 2017-2021, Islamic Azad University, Science and Research Branch, Tehran - IRAN.
6. Director of Master's student thesis on the subject "Contribution of pumice and metakaolin to transport phenomena and to the durability of fiber-reinforced concrete with respect to migration of chlorides in non-steady state", 2018-2019, North Tehran University - IRAN.
7. Director of Master's student thesis on the subject " Effect of the addition of pumice and metakaolin on the improvement of the durability of high-performance concrete reinforced with fiber for the application on the pavement", 2018-2019, North Tehran University - IRAN.
8. Director of Master's student thesis on the subject " Study of the microstructure, mechanical properties and durability of fiber-reinforced concrete with respect to freeze-thaw cycles in order to increase the performance of highway pavement ", 2018-2019, North Tehran University - IRAN.
9. Director of Master's student thesis on the subject " Influence of natural and artificial pozzolan on the behavior of concrete vis-à-vis the attack of acid rain ", 2018-2019, North Tehran University - IRAN.

## PROFESSIONAL EXPERIENCES

- Quality Control (QC) Directors for Imam Khomeini International Airport (IKA) & Northern highway - Tehran - IRAN.
- Director of Research and Development (R & D) - ImenRah consulting engineers Company - Tehran - IRAN.
- Project manager at Birjand airport - Birjand - IRAN.