Ghazal Kamyabjou

gkamyab@ncsu.edu ⋄ www.linkedin.com/in/ghazal-kamyabjou
Energy Data Analyst

EDUCATION

North Carolina State University — Raleigh, NC
Ph.D. Candidate in Design — *2017-Expected 2023*

University of Tehran — Tehran, IRAN
M.Sc. in Energy and Architecture — *2012-2015*

Amirkabir University of Technology — Tehran, IRAN
B.Sc. in Physics — *2007-2011*

TECHNICAL SKILLS

General

- Machine learning application in electricity demand management,
- Statistical data Analysis
- Electricity load forecasting,
- Smart grid,
- Building Energy modeling

Programming Language

- Python
- MATLAB
- R

Software

- JMP (Statistical Software)
- EnergyPlus
- OpenStudio
- BEopt
- ENVI-met
- DesignBuilder
- Autodesk Revit
- Autodesk AutoCAD

RESEARCH & WORK EXPERIENCE

North Carolina State University — 2017-present
Research Assistant — Raleigh, NC

Rokham Design Studio — 2015-2017
Co-founder and Building Energy Analyst — Tehran, IRAN

University of Tehran — 2012-2015
Research Scholar — Tehran, IRAN

Awards and Recognition

- NC State University Graduate School Summer Fellowship Award, 2020
- Scientific Reviewer for Technology | Architecture + Design, 2019
- Student Fellowship, RCI Inc., 2017
- Awarded Provost's Fellowship, North Carolina State University, 2017

CERTIFICATES

Modeling in ANSYS Fluent — Summer 2019, Tehran, Iran
Summer school in University of Tehran

Programing in Python — Summer 2019, Tehran, Iran
Summer school in University of Tehran

2018 State Energy Conference Continuing Education Certificate — April 2018, Raleigh, NC
Next generation of technologies in energy for the residential sector, 2018 State Energy Conference of North Carolina

International Seminar on New Approaches for Energy, Comfort, Safety in And Around Buildings — September 2014, Tehran, Iran
Joint Seminar by Karlsruhe Institute of Technology, Eindhoven University of Technology and University of Tehran

SELECTED PUBLICATIONS AND PRESENTATIONS

1. Conference Presentation: Kamyabjou G., Meeks R., Johnson J. X., "Unsupervised residential load disaggregation based on low-resolution smart meter data and surveys in a developing country context", Applied Energy Symposium MIT A+B, Massachusetts Institute of Technology**,** 2021.

2. Journal Paper: Salamati M., Mathur P., Kamyabjou G., Taghizade K., "Daylight performance analysis of TiO2@W-VO2 thermochromic smart glazing in office buildings", Building and Environment, Elsevier, Volume 187, 2020.

3. Journal Paper: Salamati M., Kamyabjou G., Mohamadi M., Taghizade K., Kowsari E., "Preparation of TiO2@W-VO2 thermochromic thin film for the application of energy efficient smart windows and energy modeling studies of the produced glass", Construction and Building Materials, Elsevier, Volume 218, 2019.

4. Conference Paper: Salamati M., Kamyabjou G., Taghizade K., Kowsari E., "The impact of different climates on energy efficiency of TiO2@W-VO2 thermochromic thin film for the application of energy efficient smart windows", Buildings XIV Conference, ASHRAE, 2019.

5. Conference Presentation: Kamyabjou G., B. Kari, S. Heidari, "A Study of Interaction of humidity, temperature, and air flow in the south building envelope", State Energy Conference of NC, 2018