

Leila Ghaffari

Curriculum Vitae

October 2020

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Education

- 2019-2024 **PhD**, *University of Colorado Boulder*.
Computer Science (anticipated)
- 2013-2016 **M.Sc**, *Sharif University of Technology*.
Chemical Engineering
- 2006-2011 **B.Sc**, *University of Tehran*.
Chemical Engineering

Research Experience

- 2020-present **Graduate Research Assistant**, *University of Colorado Boulder*.
Contributing to the development of libCEED, a new open-source mathematical software library for High-Performance Scientific Computing.
- 2019-2020 **Collaborating Researcher**, *University of Colorado Boulder*.
Expanded a Navier-Stokes solver miniapp for compressible gas dynamics in a three-dimensional geometry in libCEED.
- Spring 2017 **Intern**, *Universite d'Avignon et des Pays du Vaucluse*.
Developed environmental-friendly chemical processes.
- 2013-2016 **Graduate Research Assistant**, *Sharif University of Technology*.
Designed a bioreactor for Sulfate reducing processes and studied the experimental consistency of the observations with theory.
- Summer 2009 **Intern**, *Tehran Oil Refinery*.
Studied the Health, Safety and Environment (HSE) management of the Tehran Oil Refinery.

Programming and Software Skills

C, R, Python

MATLAB, AutoCAD, SOLIDWORKS, ChemCAD, HySIS

Publications

Boublenza I, Lazouni HA, **Ghaffari L**, Ruiz K, Fabiano-Tixier AS, Chemat F (2017) Influence of roasting on sensory, antioxidant, aromas, and physicochemical properties of carob pod powder (*Ceratonia siliqua* L.). J Food Qual 2017:1-10.

<https://doi.org/10.1155/2017/4193672>

Contributed Talks

June 2020 *Towards Exascale Computing: Vectorized Operator Evaluations on Heterogeneous Architectures with libCEED*,
European Seminar on Computing (ESCO) 2020, Pilsen, Czech Republic
Valeria Barra, Jeremy Thompson, **Leila Ghaffari**, Yohann Dudouit, and Jed Brown

Posters

April 2020 *An open-source library for high-performance computing on heterogeneous architectures: libCEED*,
Women in High Performance Computing Summit, Vancouver, Canada
Valeria Barra, Jed Brown, Yohann Dudouit, **Leila Ghaffari**, and Jeremy Thompson

Honors and Awards

October 2020 *Clive Baillie Memorial Fellowship (\$1000)*,
Awarded from the Department of Computer Science at CU Boulder to attend the 2021
SIAM Conference on Computational Science and Engineering (CSE2021)

Teaching Experience

Spring 2011 **Teaching Assistant**, *University of Tehran*.
Computer Aided Process Design & Simulation with HySIS

Languages

Farsi	Native
Azeri	Native
English	Fluent
Arabic	Research Proficiency
French	Intermediate

References

Jed Brown	Assistant Professor , <i>University of Colorado Boulder</i> . Email: jed.brown@colorado.edu
Kenneth Jansen	Professor , <i>University of Colorado Boulder</i> . Email: Kenneth.Jansen@colorado.edu
Harvey Segur	Professor , <i>University of Colorado Boulder</i> . Email: segur@colorado.edu

Hamid-Reza Kariminia

Associate Professor, *Sharif University of Technology*.
Email: kariminia@sharif.edu