Alireza Sarmadian

DATE OF BIRTH: 7^{th} OF MAY, 1991

Department of Engineering and Design, University of Sussex, Brighton BN1 9QT, UK MOBILE: (+44) 7862-753830

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EDUCATION

SEP. 2018- PhD Research Scholarship in Engineering and Design

PRESENT School of Engineering and Informatics, University of Sussex, Brighton, UK Industry funded thesis: "Thermal management of an evaprative spray cooling system for ICEs and automotive electrical and electronic powertrain components"

| Supervisor: Prof Julian DUNNE

Aug. 2016 M.Sc. in Aerospace engineering

Faculty of New Sciences and Technologies, University of Tehran, Tehran, Iran Thesis: "Condensation Heat Transfer, Pressure Drop, and Flow visualization Characteristics of R-600a in Horizontal Smooth and Helically Dimpled Tubes"

| Supervisor: Dr Maziyar Shafaee, GPA: 3.72/4

Aug. 2014 B.Sc. in Mechanical Engineering

School of Mechanical Engineering, Shahid Bahonar University of Kerman, Iran Thesis: "Design and Optimization of Desalination Systems" (Grade: 19/20)

| Supervisor: Prof Mehran AMERI

WORK EXPERIENCE

JAN. 2019- PRESENT | Doctoral Tutor

Nov. 2016- Mar. 2018

DEPARTMENT OF ENGINEERING AND DESIGN, UNIVERSITY OF SUSSEX Research Mentor at TPFL (TWO-PHASE FLOW LABORATORY), Tehran FACULTY OF NEW SCIENCES AND TECHNOLOGIES, UNIVERSITY OF TEHRAN

- Designed research projects involving heat and mass transfer for three graduates' dissertations; modelling, simulation and experiments.
- Developed research schedules and provided guidance throughout projects.
- Supported mentees through presentations, group and individual tutorials including CAD CAM, ANSYS FLUENT and Test rig demonstrations.

APR. 2016- OCT. 2016

Researcher at Pishran Novin Aseman, Tehran Hydraulic Valve Design and Manufacturing

 Conceptual design of industrial solenoid valves and became familiar with valve selection based on standards such as ECS, API, and ASTM, logistic design method of industrial valves, and test procedures.

SUMMER 2014 SUMMER 2013 Summer Internship at NATIONAL IRANIAN GAS COMPANY, Fars, Shiraz Summer Internship at Iran Khodro Diesel Company, Fars, Shiraz

TEACHING EXPERIENCE

SEMESTER-1 2019/20

Associate Tutor, Engineering Maths, Workshop, Dr Carole Becker
Control Engineering, Lab and practicals, Dr Alaa Hussein
Engine Technology, Lab, Dr Arash Dizqah, Prof Peter Fussey
Programming for Engineers (Graduates), Workshop, Dr Ronald Grau
Programming for Engineers (Undergrads), Lab, Dr Kun Liang

SEMESTER-2 2018/19

Engineering Thermodynamics, Lab, Dr William Wang
School of Engineering and Informatics, University of Sussex

Teaching Assistant, Advanced Maths, Workshop, Dr Roham Rafiee
Faculty of New Sciences and Technologies, University of Tehran

JOURNAL PUBLICATIONS

| tubes with coiled wire inserts during condensation of R-600a." HA Moghaddam, A Sarmadian, M Shafaee, Hamid Enayatollahi International Journal of Heat and Mass Transfer, 148: 119062 Nov. 2019 "Pressure loss and performance assessment of horizontal spiral coil inserted pipes during forced convective evaporation of R-600a." Farzam Alimardani, HA Moghaddam, A Sarmadian, M Shafaee International Journal of Refrigeration, 107: 20-30 AUG. 2019 "An experimental study on condensation heat transfer characteristics of R-600a in tubes with coiled wire inserts." HA Moghaddam, A Sarmadian, M Shafaee Applied Thermal Engineering, 159: 113889 SEP. 2017 "Condensation Heat Transfer and Pressure Drop Characteristics of R600a in Horizontal Smooth and Helically Dimpled Tubes." A Sarmadian, M Shafaee, H Mashouf, SG Mohseni Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." M Shafaee, H Mashouf, A Sarmadian, SG Mohseni | FEB. 2020 | "Flow pattern maps, pressure drop and performance assessment of horizontal |
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| International Journal of Heat and Mass Transfer, 148: 119062 "Pressure loss and performance assessment of horizontal spiral coil inserted pipes during forced convective evaporation of R-600a." Farzam Alimardani, HA Moghaddam, A Sarmadian, M Shafaee International Journal of Refrigeration, 107: 20-30 AUG. 2019 "An experimental study on condensation heat transfer characteristics of R-600a in tubes with coiled wire inserts." HA Moghaddam, A Sarmadian, M Shafaee Applied Thermal Engineering, 159: 113889 SEP. 2017 "Condensation Heat Transfer and Pressure Drop Characteristics of R600a in Horizontal Smooth and Helically Dimpled Tubes." A Sarmadian, M Shafaee, H Mashouf, SG Mohseni Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | tubes with coiled wire inserts during condensation of R-600a." |
| Nov. 2019 "Pressure loss and performance assessment of horizontal spiral coil inserted pipes during forced convective evaporation of R-600a." Farzam Alimardani, HA Moghaddam, A Sarmadian, M Shafaee International Journal of Refrigeration, 107: 20-30 Aug. 2019 "An experimental study on condensation heat transfer characteristics of R-600a in tubes with coiled wire inserts." HA Moghaddam, A Sarmadian, M Shafaee Applied Thermal Engineering, 159: 113889 SEP. 2017 "Condensation Heat Transfer and Pressure Drop Characteristics of R600a in Horizontal Smooth and Helically Dimpled Tubes." A Sarmadian, M Shafaee, H Mashouf, SG Mohseni Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | HA Moghaddam, A Sarmadian , M Shafaee, Hamid Enayatollahi |
| pipes during forced convective evaporation of R-600a." Farzam Alimardani, HA Moghaddam, A Sarmadian, M Shafaee International Journal of Refrigeration, 107: 20-30 AUG. 2019 "An experimental study on condensation heat transfer characteristics of R-600a in tubes with coiled wire inserts." HA Moghaddam, A Sarmadian, M Shafaee Applied Thermal Engineering, 159: 113889 SEP. 2017 "Condensation Heat Transfer and Pressure Drop Characteristics of R600a in Horizontal Smooth and Helically Dimpled Tubes." A Sarmadian, M Shafaee, H Mashouf, SG Mohseni Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | International Journal of Heat and Mass Transfer, 148: 119062 |
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| SEP. 2017 "Condensation Heat Transfer and Pressure Drop Characteristics of R600a in Horizontal Smooth and Helically Dimpled Tubes." A Sarmadian, M Shafaee, H Mashouf, SG Mohseni Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) AUG. 2016 "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | HA Moghaddam, A Sarmadian, M Shafaee |
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| Experimental Thermal and Fluid Science, 86: 54-62. SEP. 2017 "Visual study of flow patterns during evaporation and condensation of R-600a inside horizontal smooth and helically dimpled tubes." H Mashouf, M Shafaee, A Sarmadian, SG Mohseni Applied Thermal Engineering, 124: 1392-1400 JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | Horizontal Smooth and Helically Dimpled Tubes." |
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| Applied Thermal Engineering, 124: 1392-1400 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | |
| JUL. 2017 "Discovering an empirically new relation and obtaining the flow pattern map for dimpled tubes in two-phase flow for refrigerant R600-a." A Vahabi, M. Shafaee, A Sarmadian, H Mashouf Modares Mechanical Engineering, 17: 39-48. (in Farsi) "Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | |
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| Modares Mechanical Engineering, 17: 39-48. (in Farsi) **Evaporation heat transfer and pressure drop characteristics of R-600a in horizontal smooth and helically dimpled tubes." | | for dimpled tubes in two-phase flow for refrigerant R600-a." |
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| horizontal smooth and helically dimpled tubes." | | |
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| Applied Thermal Engineering, 107: 28-36. | | Applied Thermal Engineering, 107: 28-36. |

AWARDS AND PATENTS

Chancellor's International Research Scholarship (CIRS) 2018; Doctoral School, University of Sussex, Falmer House, Brighton BN1 9QF, United Kingdom

Sarmadian, Alireza; Mashouf, Hooman; Shafaee, Maziyar. 2017. Helically Dimpled Enhanced Heat Transfer Tube. Iran Intellectual Property Office, Patent 91320, filed June 5, 2016, and issued February 18, 2017.

MEMBERSHIP AND SERVICE

Nov. 2019- Present | Reviewer

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, ELSEVIER

SKILLS

Courses: Starting to Teach | Associate Fellow of the Higher Education Academy (AFHEA)

Piping and Welding

CFD (Finite Difference and Finite Volume)

Software: Expert in EES (Engineering Equation Solver) and REFPROP | NIST, familiar with

Ansys (Fluent and ICEM), Gambit, HyperMesh, and STAR-CCM+

Programming: Expert in MATLAB, LabVIEW (FPGA), familiar with Fortran, C and C++

LANGUAGES

ENGLISH: Advanced FARSI: Native

ACADEMIC INTERESTS

Thermal Management, Heat transfer augmentation, Two-phase flow, Flow visualization MEMS including Micro-channels, Heat sinks, and Heat pipes

Microfluidics and Lab-on-a-chip devices

ACTIVITIES

Basketball, Swimming, Travelling

REFERENCES

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Prof M. Ameri (ameri mm@uk.ac.ir)

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