JAY M. KHODADADI, ASMEFELLOW

Fluids/Thermal Sciences (i. Thermal Energy Storage, ii. Energy-Intensive Processing and iii. BioFluid Dynamics)
Professor, Mechanical Engineering Department, Auburn University

1-page Summary of Major Academic Accomplishments as of November 8, 2024

RESEARCH

Funding

- \$6.3 million for 52 grants/contracts (Allcomp, AL Space Grant Consortium, Containerless Research, ALCOA, California Energy Commission, Cray Research, DOE NREL, Dresser-Rand Corp., DOE, General Dynamics, L3Harris, Memtec Fluid Dynamics, NASA, NSF, ONR, US Dept. of State, USFS and US Fulbright Program, etc.)
- Participation in interdisciplinary groups.

Auburn: AMTC, CASTNET, CM³, NCAME.

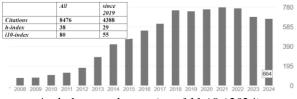
Alabama: PI on the 5-univ. DOE NePCM Cluster.

Europe: CONCAST, INNOSTORAGE.

• Sponsored off-campus student research visits at DOE LLNL, DOE PNNL, RPI, SPAIN, UIUC.

PUBLICATIONS

- 95 Full-Length Refereed Journal Papers
 - Since joining Auburn: 89
 - Total Citations: 8476*
 - H-Index: 38*



*scholar.google.com (as of 11 / 8 / 2024)

- H-Index=35 (Scopus ID: 7004182221)
- 138 Refereed Conference Presentations Since joining Auburn: 128
- 3 AU Patent Applications

TEACHING / ADVISING

Advising Graduate Students as Major Professor

• 15 PhD, 13 MS and 12 MME

Advised Graduate Students as Cmte. Member

• 23 PhD, 25 MS, 12 MME and 3 MAE Students (Aero. Eng., Chem. Eng., Civil Eng., Math. and Mech. Eng. Departments at AU)

Sponsored Visiting Research Scholars

• 15 Professors and PhD Students.

University Readership Appointments at AU

• 12 PhD Students (Aero. Eng., Chem. Eng., Chemistry and Mathematics)

External Examiner

- 5 PhD (Univ. of Toronto, CANADA, Univ. Barcelona, SPAIN, Zhejiang Univ. CHINA, SV National Inst. of Tech., INDIA, Univ. of Malaya, MALAYSIA)
- 1 MS (Nanyang Tech. Univ., SINGAPORE)

Courses Taught / Advised

- <u>Undergraduate</u>: Computer-Aided Engineering, Fluid Mechanics, Compressible Fluid Flow*.
- <u>Undergraduate</u>: Senior Design Projects (Advisor).
- <u>Graduate</u>: Advanced Fluid Mechanics I, Advanced Fluid Mechanics II, Boundary Layer Theory, Fluid Dynamics of Processing*, Turbulence, 12 Independent Studies / Dir. Readings on Energy sub-topics.
- * New courses introduced at AU.

SERVICE / OUTREACH

Auburn University

- Univ. Research Grant-in-Aid Committee
- Faculty Grievance Hearing Panel

Samuel Ginn College of Engineering

• Committee on Teaching Evaluation

Graduate School

• Judge of the Scholars Forum (2010)

Prof. Organizations / Journal Review Boards

- Board of Review of MMT-B (1999-2007)
- Assoc. Tech. Editor of JHT (2004-2007)
- Chaired 15 Technical Sessions
- Reviewed 673 Manuscripts for 164 Journals

Performance / Proposal / Fellowship Reviews

- Reviewed 24 non-Auburn faculty dossiers
- Grant agencies of Canada, Chile, Czech Republic, Georgia, Hong Kong, Israel, Netherlands, Singapore, Switzerland, USA (ACS, ARPA-E, ASGC, CRDF, DOE, Fulbright, NASA, NSF, PRF, etc.)

Invited Seminar Presentations

• 34 Seminars delivered in China, Czech Rep., France, Germany, Japan, Korea, Spain, Taiwan, USA

Awards / Recognitions

- ASME Fellow / AIAA Associate Fellow
- Many Society / Division Awards (ASEE, ASME, NAMTAC, SAE, SME)
- Travel Awards (AL DOE/NASA EPSCoR, CONCAST, NAS/NRC, NSF, Universitat de Barcelona)
- Auburn University (1998 Birdsong Teaching Award, 2003 Walker Teaching Award, ME Outstanding Faculty Member Awards, '99-'00 and '06-'07)

Workshops and Organizing Conf. / Symposia

- Attended 16 Workshops / Professional Courses
- Served on Advisory / Scientific Committees of 6 International Conf. / Symposia / Training Schools