



Citation of
Professor Jamal Yagoobi
for the
2024 Board of Trustees' Award for
Outstanding Research and Creative Scholarship

In recognition of his extraordinary contributions to the fields of heat and mass transfer, and his profound impact on academia, industry, and the global research community, we proudly present Professor Jamal Yagoobi with the *2024 Board of Trustees' Award for Outstanding Research and Creative Scholarship*.

Professor Yagoobi has made significant contributions to understanding the physical and theoretical mechanisms of drying and thermal processes. He has documented his legacy by an impressive number of publications, accomplishments, and high caliber research. In the words of Professor Yagoobi's peers - his research and teaching abilities are unparalleled.

An innovator in research, Professor Yagoobi's pioneering work in non-mechanical heat transfer technologies and drying solutions has revolutionized industries critical to our nation's energy and sustainability goals. His establishment of the NSF Industry University Cooperative Research Center, "Center for Advanced Research in Drying" (CARD), exemplifies his collaborative spirit and dedication to bridging the gap between academia and industry. This innovative testbed is actively assisting large and small companies in developing commercial dryers with a zero-carbon footprint. Not only does this facility contribute to the advancement of industrial practices, but it is also an invaluable resource in Professor Yagoobi's teaching activities, providing students with hands-on experience in understanding the energy dynamics of commercial drying processes. Also under Professor Yagoobi's guidance, the Multi-Scale Heat Transfer Laboratory at WPI has emerged as a hub of innovation, yielding groundbreaking research published in top journals and securing patents that have been successfully transitioned to industry.

His unwavering commitment to knowledge dissemination is evident in his prolific keynote presentations and important roles in organizing international conferences. As Head of one of the largest departments at WPI for 11 years, his visionary leadership has propelled departmental enrollment and external research funding to unprecedented heights. During his time as

department head, he oversaw the development and spin-out of two new departments, Aerospace Engineering and Robotics Engineering.

Additionally, Professor Yagoobi's pioneering spirit extends beyond the confines of terrestrial research, as evidenced by his remarkable endeavors in space exploration. Collaborating closely with NASA Goddard Space Research Center, he organized an experiment onboard the International Space Station for over 18 months, pushing the boundaries of scientific inquiry beyond Earth's atmosphere.

It is our great honor to recognize Professor Jamal Yagoobi in acknowledgment of his outstanding scholarly achievements and service to WPI. He is a true embodiment of the values of excellence, innovation, and collaboration that define the Worcester Polytechnic Institute. In recognition of his unwavering commitment to advancing knowledge and innovation, we honor Professor Jamal Yagoobi with this prestigious award, celebrating his profound impact on academia, industry, and society at large.

2024 Selection Committee

Frederick Bianchi, HUA
Terri Camesano, GS, CHE
Dmitry Korkin, CS
Jagan Srinivasan, BBT
Bogdan Vernescu, VPR