University of Michigan – Shanghai Jiao Tong University Joint Institute

Sustaining Partnerships at Scale: A US-China Case Study
APAIE 2018
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Session Goals

• Explore how a long-term China-US partnership evolved over 20+ years

• Learn about challenges and strategies for managing large-scale student mobility programs

• Consider the benefits and limitations of dual degree and transfer student programs

• Discuss how changes in institutional, municipal and national leadership impact a partnership
UM-SJTU Joint Institute

Vision: A world-class teaching and research institute in China for nurturing innovative leaders with global visions.
Key Milestones

1990-2005

- 1992: Establishment of S.M. Wu Advanced Manufacturing Research Center @ U-M
- Collaborative research + visiting SJTU students @ U-M

2005-2011

- 2005: UM & SJTU sign strategic collaboration agreement
- 2006: Launch of Joint Institute, first dean appointed, first JI class admitted (196 undergraduates)
- 2006: Winter programs launched
- 2007: Pilot U-M student program @ SJTU
- 2011: Exchange programs launched

2012-2016

- 2012: Strategic 10-year review, ABET accreditation
- 2014: Received IIE’s Andrew Heiskell Awards for Innovation in International Education

2017-2021

- 2016: Strategic 10-year review, ABET accreditation
- 2017-2021
Joint Institute Student Enrollment

- 1,812 JI bachelors degrees awarded
- 1,226 to US graduate schools
- 120 JI graduate degrees awarded
Student Mobility Since 2006

- 470+ U-M students at the Joint Institute
- 140+ international students from other institutions at the JI
- 1,105 JI dual degree students at U-M
- ~60-80 JI students to U-M graduate programs per year
- JI class of 2018: 78% international experience
Expanded Partnerships

University of Michigan
University of California (all 10 campuses)
Stony Brook University, New York
University of Maryland
NC State University
Texas A&M
Royal Institute of Technology
KU Leuven
Technical University of Delft
Université de technologie de Troyes
Instituto Tecnológico de Buenos Aires
Université de technologie de Troyes
Technical University of Munich
Walther Aachen University
Technical University of Berlin
Friedrich- Alexander- Universität Erlangen- Nürnberg
Lappeenranta University of Technology
Karlsruhe Institute of Technology
University of Navarra
Instituto Tecnológico de Buenos Aires

Expanded Partnerships

GE³

No. Partners

2012 2013 2014 2015 2016 2017
Joint Institute Faculty

Full-time faculty: 55
Tenure track: 28
International faculty: 22

Graph showing the number of non-tenure track (Non TT) and tenure track (TT) faculty from 2007 to 2017.
Challenges

• What surprised you most about the Joint Institute partnership?
• External and internal competition
• Faculty recruitment and retention
• Long-term financial sustainability
Management Strategies

• Broad network of co-ownership across multiple faculty, administrators and disciplines
• Respecting different value propositions
• Trust and open communication
• In-person time together, especially for leadership board
Navigating Leadership Transitions

U-M
- 2 presidents
- 6 provost’s
- 4 engineering deans

SJTU
- 2 University Chairs
- 3 presidents
- 2 JI deans
- Municipal government and ministry support
To dual degree or not to dual degree?

- Strong student recruitment tool
- Implications for continuous enrollment in Shanghai
- Sustainability at U-M
- Student experience
- Looking to the future
Global Degree Pathway (GDP)

UM-SJTU JI Undergraduate Study

Other global partner

Other global partner

Other global partner

Other global partner

Other global partner

Michigan Graduate Study
Global Degree Pathway (GDP)

- MS in Eng.
- MS in Big Data
- MS in Environmental Science
- MM in Business
- Master’s Degree in Economics/Finance
- BS in Eng. At JI
Questions?