

## CURRICULUM VITA

1. **Name:** Lai Jiang
2. **Education:** B.E., M.E., Shanghai University, Shanghai, China, July 2009.  
M.S., M.E., University of Southern California, Los Angeles, CA, May 2011.  
Ph.D., M.E., Rensselaer Polytechnic Institute, Troy, NY, December 2015.
3. **Academic Experience:**  
2017-present Prairie View A&M University, Assistant Professor, full-time  
2016-2017 Post-doctoral researcher, Department of Mechanical, Aerospace and Nuclear Engineering, Rensselaer Polytechnic Institute, part-time  
2016 Adjunct Faculty, Department of Mechanical, Aerospace and Nuclear Engineering, Rensselaer Polytechnic Institute, part-time
4. **Current Membership in Professional Organizations:**  
(a) Member of ASME, (b) Member of SAE
5. **Honors & Awards**
  - 2<sup>nd</sup> Place, the New York State Pollution Prevention Institute (NYSP2I) 4th Annual R&D Student Competition: 2014 – 2015, Apr. 2015
  - Finalist, Student Manufacturing Design Competition at MSEC/NAMRC 2014 Conference, Jun. 2014
  - William R. Osgood Award of Rensselaer Polytechnic Institute, 2011-2012 Academic Year
6. **Publications and Presentations from the Last Five Years**
  - **L. Jiang**, “Production of Bioresins from Fungal Mycelia,” in *Fungal Biopolymers and Biocomposites: Prospects and Avenues*, S. Deshmukh, Ed., Singapore: Springer, 2022, ch. 13, pp. .
  - **L. Jiang**, A.S. Amarasekara, Q.D. Jackson, and D. Wang, “Mechanical Properties of the Woven Natural Fiber Reinforced Sheet Stocks Used for the Laminated Object Manufacturing (LOM) Rapid Prototyping Process,” in *ASC Thirty-Sixth Technical Conference Proceedings*, College Station, TX, Sep. 19 – 23, 2021, pp. 2318-2330.
  - X. Peng, D. Zhang, D. Zhang, and **L. Jiang**, “Simulation of Flow Induced Multi-Particle Motion Using Finite Element Method,” *Computer-Aided Design and Applications*, vol. 18, no. 3, pp. 600-611, Oct. 2021.
  - X. Peng, D. Zhang, D. Zhang, and **L. Jiang**, “Simulation of Flow Induced Multi-Particle Motion Using Finite Element Method,” in the *Proceedings of International CAD Conference and Exhibition*, July 6-8, 2020, Barcelona, Spain.
  - **L. Jiang**, X. Peng, and D. F. Walczyk, “3D Printing of Biofiber-reinforced Composites: A Review,” *Rapid Prototyping Journal*, vol. 26, no. 6, pp. 1113-1129, Jun. 2020. doi.org/10.1108/RPJ-08-2019-0214.
  - **L. Jiang**, D. F. Walczyk and Bingbing Li “Modeling of glue penetration into natural fiber reinforcements by roller infusion,” *J. Manuf. Sci. Eng.*, vol. 140, no. 4, pp. 041006.1-11, Feb. 2018, doi:10.1115/1.4038514.
  - **L. Jiang**, *et al.*, “Manufacturing of biocomposite sandwich structures using mycelium-bound

cores and preforms,” *J. Manuf. Pro.*, vol. 28, no. 1, pp. 50-59, Aug. 2017.

- **L. Jiang**, D. F. Walczyk, and G. McIntyre, “A new approach to manufacturing biocomposite sandwich structures: investigation of preform shell behavior,” *J. Manuf. Sci. Eng.*, vol. 139, no. 2, pp. 021014.1-11, Feb. 2017, doi:10.1115/1.4034278.

## **7. Brief List of Most Recent Professional Development Activities**

- 2021 The 36<sup>th</sup> ASC annual technical conference, College Station, TX, Sep. 19 – 23, 2021.
- 2020 HBCU-UP/CREST PI/PD Meeting, Washington, D.C., Feb. 5-6, 2020.
- 2019 HBCUs/MSIs in Advanced Manufacturing R&D Draft Workshop, Alexandria, VA., Nov. 6-8, 2019.
- 2019 TEES Annual Research Conference, Greenville, TX, May 21-22, 2019.
- MSEC/NAMRC 2018 Conference, College Station, TX, Jun. 18-22, 2018.
- 2018 TEES Annual Research Conference, College Station, TX, May 21-22, 2018.
- 2018 NSF Workshop on Research Needs in Machining and Machine Tools, Alexandria, VA, Mar. 5-6, 2018.
- The 6th International Sustainable Manufacturing Forum. Lexington, KY, Dec. 7-8, 2017.
- MSEC/NAMRC 2014 Conference. Detroit, MI, Jun. 9-13, 2014.
- The Composites and Advanced Materials Expo. Orlando, FL. Oct. 13-16, 2014.
- American Society for Composites 29<sup>th</sup> Technical Conference, La Jolla, CA. Sep. 8-14, 2014.
- SAMPE 2013 Conference & Exhibition, Long Beach, CA. May 6-9, 2013.