



**PRAIRIE VIEW
A&M UNIVERSITY**

Curriculum Vitae

Faculty Name:	Lai Jiang		Work Address:	P.O. Box 519; MS 2525 Prairie View, TX 77446
Position Title:	Associate Professor			
Office Location:	C. L. Wilson Engr. Bldg., 105A			
Office Phone:	936-261-9927			
Email Address:	lajiang@pvamu.edu			
Education:	Degree and Area of Study	Institution Name	Degree Date	
	Ph.D. in Mechanical Engineering	Rensselaer Polytechnic Institute	12/2015	
	M.S. in Mechanical Engineering	University of Southern California	05/2011	
	B.E. in Mechanical Engineering	Shanghai University	07/2009	
Teaching Experience	Position Title	Institution Name	Position Dates (Beginning and End)	
	Associate Professor	Prairie View A&M University	09/2023 to present	
	Assistant Professor	Prairie View A&M University	09/2017 to 08/2023	
	Assistant Professor	Norwich University	07/2017 to 09/2017	
	Adjunct Faculty	Rensselaer Polytechnic Institute	08/2016 to 12/2016	
	Teaching Assistant	Rensselaer Polytechnic Institute	08/2011 to 05/2015	
Professional Publications:				
1	L. Jiang, D. F. Walczyk and Bingbing Li "Modeling of glue penetration into natural fiber reinforcements by roller infusion," <i>J. Manuf. Sci. Eng.</i> , paper accepted for publication on Oct. 17 2017, doi:10.1115/1.4038514.			
2	L. Jiang, et al., "Manufacturing of biocomposite sandwich structures using mycelium-bound cores and preforms," <i>J. Manuf. Pro.</i> , vol. 28, no. 1, pp. 50-59, Aug. 2017.			
3	L. Jiang, D. F. Walczyk, and G. McIntyre, "A new approach to manufacturing biocomposite sandwich structures: investigation of preform shell behavior," <i>J. Manuf. Sci. Eng.</i> , vol. 139, no. 2, pp. 021014.1-11, Feb. 2017, doi:10.1115/1.4034278.			
4	L. Jiang, et al., "Cost modeling and optimization of a manufacturing system for mycelium-based biocomposite parts," <i>J. Manuf. Sys.</i> , vol. 41, pp. 8-20, Jul. 2016.			
5	L. Jiang, "Application of the lean manufacturing concept in the manufacturing process improvements of a Sealy mattress plant," <i>Machine Building & Automation</i> , vol. 42, no. 4, pp. 29-31, 35, Jun. 2013.			
6	L. Jiang, Z. Yang, and Q. Peng, "Mechanical stabilities and properties of graphene-like two-dimensional III-Nitrides," in <i>Computational and Theoretical Nanoscience of Two-Dimensional Materials</i> , edited by Renqiang Zhu, Springer, 2016.			
7	L. Jiang, et al., "A new approach to manufacturing biocomposite sandwich structures: mycelium-based cores," <i>Proc. ASME 2016 International Manuf. Sci. Eng. Conf.</i> , Paper #MSEC2016-8864.			

8	L. Jiang, D. F. Walczyk, and G. McIntyre, "Vacuum infusion of mycelium-bound biocomposite preforms with natural resins," in <i>CAMX Conf. Proc.</i> , 2014, pp. 2293-2305.
9	L. Jiang, D. F. Walczyk, and G. McIntyre, "A new process for manufacturing biocomposite laminate and sandwich parts using mycelium as a binder," in <i>ASC 2014 Proc.</i> , pp. 8-10.
10	L. Jiang, <i>et al.</i> , "Manufacturing of mycelium-based biocomposites," in <i>SAMPE 2013 Proc.</i> , pp. 1944-1955.
Additional Trainings/Skills:	
	3D CAD (SolidWorks, AutoCAD), Engineering drawings, DFMA
	DOE, experiment equipment handling, standard mechanical tests, viscosity measurements, DAQ
	Composites manufacturing processes (hand lay-up molding, RTM, mold design, etc.) test equipment design and fabrication, 3D printing, laser cutting, CMM, turning, milling, drilling, CNC machining, assembly, bench work, FMEA
	Manufacturing process and system modeling and optimization (Arena), FEA (SolidWorks, Abaqus, COMSOL), heat transfer analysis (SolidWorks), flow behavior modeling (COMSOL), analytical statistics (IBM SPSS, MINITAB, Microsoft Excel), FMEA, ANOVA