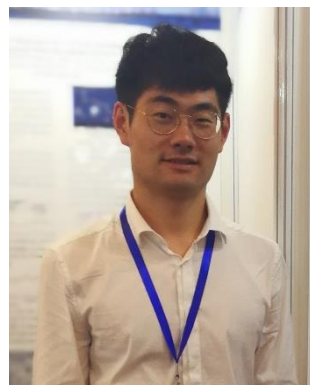


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Research Interests:

- Laser welding under vacuum
- Elucidation of high power laser welding phenomena
- Modeling of keyhole mode laser welding

Academic Background:

- ❖ Materials Science and Engineering, Pennsylvania State University, 2019.1 - Present, Visiting Student, advised by Prof. T. DebRoy
- ❖ Materials Processing Engineering, Harbin Institute of Technology (HIT), China, 2015.9 - Present, Ph.D. Student, advised by Prof. Yanbin Chen

Publications

- ❖ **Meng Jiang**, Xi Chen, Yanbin Chen, Wang Tao. Increasing keyhole stability of fiber laser welding under reduced ambient pressure. *Journal of Materials Processing Technology*, 2019, 268: 213-222.
- ❖ **Meng Jiang**, Wang Tao, Yanbin Chen, Fukang Li. Comparison of processing window in full penetration laser welding of thick high-strength steel under atmosphere and sub-atmosphere. *Optics & Laser Technology*, 2019, 109: 449-455.
- ❖ **Meng Jiang**, Wang Tao, Shuliang Wang, Liqun Li, Yanbin Chen. Effect of ambient pressure on interaction between laser radiation and plasma plume in fiber laser welding. *Vacuum*, 2017, 138:70-79
- ❖ **Meng Jiang**, Wang Tao, Yanbin Chen. Laser Welding under Vacuum: A Review. *Applied Sciences*, 2017, 7(9):909.
- ❖ **Meng Jiang**, Wang Tao, Yanbin Chen, Shuliang Wang. Characteristics of Bead Formation and Plasma Plume in Fiber Laser Welding Under Vacuum. *Chinese Journal of Lasers*, 2016, 43(4): pp.0403010.
- ❖ **Meng Jiang**, Genchen Peng, Wang Tao, Liqun Li, Yanbin Chen. Analysis of Penetration Depth Variation and Porosity Suppression in Laser Welding of aluminum alloy under Vacuum. IIW 2017 International Conference. Shanghai International Convention Center, Shanghai, China, June 29-30, 2017.