

# HOSSEIN SEHHAT

Ph.D. Candidate and Research Assistant

Innovative Smart and Additive Manufacturing Laboratory (ISAM)

342, Toomey Hall, Missouri University of Science and Technology, Rolla, MO, 65409

[hsehhat@mst.edu](mailto:hsehhat@mst.edu) - (323) 441-5944 - <https://www.linkedin.com/in/hosseinsehhat/>

(Last updated: Mar 2021)

## RESEARCH INTERESTS

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- Additive Manufacturing
- Laser Powder Bed Fusion
- Metal Powder Characterization
- Powder Spreadability in Additive Manufacturing
- Modeling Powder Performance using the Discrete Element Method
- Metal Shaping, Sheet Metal Forming and Formability

## EDUCATION

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|--------------|---|--------------|
| <b>Ph.D.</b> | Missouri University of Science and Technology, Rolla, MO<br>Mechanical Engineering<br>Research Topic: Laser Powder Bed Fusion Process<br>Advisor: Dr. Ming C. Leu     | 2018-Present |
| <b>M.S.</b>  | Shahid Rajaee Teacher Training University, Tehran, Iran<br>Mechanical Engineering   | 2016-2018    |
| <b>B.S.</b>  | Semnan University, Semnan, Iran<br>Mechanical Engineering<br>Thesis: " Experimental Determination of Forming Limit Diagrams of Perforated Sheets Using Nakajima Test" | 2012-2016    |

## RESEARCH EXPERIENCE

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| <b>Graduate Research Assistant</b> | Missouri University of Science and Technology, Rolla, MO<br>Innovative Smart and Additive Manufacturing Laboratory (ISAM) | 2018-Present |
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## PUBLICATIONS

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1. [“The effect of laser welding modes on mechanical properties and microstructure of 304L stainless steel parts fabricated by laser-foil-printing additive manufacturing,”](#) C-H. Hung, W-T. Chen, M. H. Sehhat and M. C. Leu, **[Journal of Advanced Manufacturing Technology](#)** (in press).

## TEACHING EXPERIENCE

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| <b>Teaching Assistant</b> | Missouri University of Science and Technology, Rolla, MO<br>ME 4842, Mechanical Engineering Systems Laboratory | 2019-Present |
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### **HONORS AND AWARDS**

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- Accepted as the exceptionally talented student without taking the national graduate university entrance exam for M.S.
- The second-best student among 45 classmates at Semnan University

### **COMPUTER SKILLS**

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- **CAD/CAM/CAE:** CATIA, SolidWorks, MATLAB, ProCast, CIMCO, ABAQUS, Python, familiar with Arena, and Lingo
- **CNC**
- **Microsoft Office:** Word, PowerPoint, Excel

### **SERVICE ACTIVITIES**

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**a. Professional service:**

Editorial Board Member 2021-Present  
Journal of Computational Research Progress in Applied Science & Engineering

**b. Society service:**

**Secretary** 2020-2021  
Missouri University of Science and Technology, Rolla, MO  
Iranian Student Association (ISA)