

# LIN HUANG

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Page: <https://linhuang17.github.io/>

## EDUCATION

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- State University of New York at Buffalo**, Buffalo, USA *Jan. 2019 – Aug. 2023 (expected)*  
*Doctorate of Philosophy in Computer Science and Engineering*  
- Advisor: Prof. Junsong Yuan
- University of Southern California**, Los Angeles, USA *Jan. 2017 - Dec. 2018*  
*Master of Science in Electrical Engineering* GPA: 4.0/4.0
- Lanzhou University**, Lanzhou, China *Sep. 2012 - Jun. 2016*  
*Bachelor of Engineering in Electronic Information Science and Technology* GPA: 4.57/5.00  
- Outstanding Bachelor Thesis: Blind Per Tone Equalization Using Support Vector Machine for OFDM

## WORK EXPERIENCE

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- Microsoft Azure AI**, Redmond, WA, USA *May. 2022 - Aug. 2022*  
*Research Intern*  
- 3D Hand Pose Estimation  
- Supervisor: Dr. Chung-Ching Lin, Dr. Kevin Lin, Dr. Lin Liang, Dr. Lijuan Wang, Dr. Zicheng Liu
- Reality Labs at Meta**, Redmond, WA, USA *Dec. 2021 - Apr. 2022*  
*Part-Time Student Researcher*  
- Interaction Tracking  
- Supervisor: Dr. Tomas Hodan
- Reality Labs at Meta**, Redmond, WA, USA *Aug. 2021 - Dec. 2021*  
*Research Intern*  
- Interaction Tracking  
- Supervisor: Dr. Tomas Hodan
- Y-tech Lab at Kwai**, Seattle, WA, USA *May. 2020 - Aug. 2020*  
*Research Intern*  
- 3D Hand Pose Estimation  
- Supervisor: Dr. Jianchao Tan, Dr. Ji Liu

## SELECTED PUBLICATIONS

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- Lin Huang**, Chung-Ching Lin, Kevin Lin, Lin Liang, Lijuan Wang, Junsong Yuan, and Zicheng Liu  
Neural Voting Field for Camera-Space 3D Hand Pose Estimation  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2023, Vancouver
- Lin Huang**, Tomas Hodan, Lingni Ma, Linguang Zhang, Luan Tran, Christopher Twigg, Po-Chen Wu, Junsong Yuan, Cem Keskin, and Robert Wang  
Neural Correspondence Field for Object Pose Estimation  
European Conference on Computer Vision (ECCV) 2022, Tel-Aviv
- Lin Huang\***, Boshen Zhang\*, Zhilin Guo\*, Yang Xiao, Zhiguo Cao, and Junsong Yuan  
Survey on Depth and RGB Image-based 3D Hand Shape and Pose Estimation  
Virtual Reality and Intelligent Hardware (VRIH) 2021
- Lin Huang**, Jianchao Tan, Jingjing Meng, Ji Liu, and Junsong Yuan  
HOT-Net: Non-Autoregressive Transformer for 3D Hand-Object Pose Estimation  
ACM International Conference on Multimedia (ACM MM) 2020, Seattle

5. **Lin Huang**, Jianchao Tan, Ji Liu, and Junsong Yuan  
Hand-Transformer: Non-Autoregressive Structured Modeling for 3D Hand Pose Estimation  
European Conference on Computer Vision (ECCV) 2020, Glasgow
6. Yujun Cai, **Lin Huang**, Yiwei Wang, Tat-Jen Cham, Jianfei Cai, Junsong Yuan, Jun Liu, Xu Yang, Yiheng Zhu, Xiaohui Shen, Ding Liu, Jing Liu, and Nadia Magnenat Thalmann  
Learning Progressive Joint Propagation for Human Motion Prediction  
European Conference on Computer Vision (ECCV) 2020, Glasgow

## CONTESTS

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**National Undergraduate Electronic Design Contest**, China *Summer 2015*  
*Group Leader*  
 - Wireless Video Communication Network  
 - The Second Prize of National Undergraduate Electronic Design Contest

## PROFESSIONAL SERVICES

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**Conference Reviewer**  
 - IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) *2021'22'23*  
 - European Conference on Computer Vision (ECCV) *2022*  
 - International Conference on Computer Vision (ICCV) *2021'23*  
 - IEEE International Conference on Image Processing (ICIP) *2022'23*  
 - IEEE World Forum on Internet of Things (WF-IOT) *2020*

**Journal Reviewer**  
 - IEEE Transactions on Image Processing (TIP)  
 - IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)  
 - The Visual Computer (TVCI)  
 - Journal of Visual Communication and Image Representation (JVCI)  
 - Machine Vision and Applications (MVAP)  
 - Signal Processing: Image Communication (SPIC)

## TEACHING

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**Teaching Assistant**, State University of New York at Buffalo  
 - CSE531: Analysis of Algorithms I *Spring 2023*  
 - CSE191: Introduction to Discrete Structures *Spring 2021*  
 - CSE555: Introduction to Pattern Recognition *Fall 2020*  
 - CSE587: Data Intensive Computing *Spring 2020*

## HONORS & AWARDS

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**Masters Students Honors Fellow**, USC Viterbi School of Engineering *2018*  
**Outstanding Graduate**, Lanzhou University *2016*  
**Pacemaker to Merit Student**, Lanzhou University *2013'14*  
**First-class Scholarship**, Lanzhou University *2014*  
**Second-class Scholarship**, Lanzhou University *2012'13*