

Omid Taheri

Curriculum Vitae

PhD Candidate, MPI Tübingen, Germany

✉ omid.taheri@tue.mpg.de

🌐 [Homepage](#)

🐙 [otaheri](#)

🐦 [omidtaherii](#)

🔗 [scholar](#)

in [omidtaherii](#)

"The best way to predict the future is to create it."

Education

- Jul 2018 - Pres. **Max Planck Institute for Intelligent Systems,** Tuebingen, DE.
Degree **Ph.D.** in Computer Science - Machine Learning and Computer Vision
Supervisors Prof. Michael J. Black, Dr. Dimitrios Tzionas
- 2014 - 2017 **Sharif University of Technology,** Tehran, IR.
Degree **M.Sc.** in Mechanical Engineering - Applied Mechanics (Control and Robotic)
GPA **3.90/4** - Among top 2% students in the Department
Thesis Gait Tracking and Analysis Using IMU and RGB Camera Data Fusion Using EKF
Supervisors Prof. Aria Alasti, Prof. Hassan Salarieh
- 2010 - 2014 **Isfahan University of Technology,** Isfahan, IR.
Degree **B.Sc.** in Mechanical Engineering - Mechatronics
GPA **3.97/4** - Ranked 1st in the Mech. Eng. Department
Thesis Design of Spool-Sleeve Electrohydraulic Servo Valves Based on Desired Parameters
Supervisor Prof. Saeed Behbahani

Publications

- 1 *GRIP: Generating Interaction Poses Conditioned on Object and Body Motion* (Under Submission)
2023 **O Taheri**, Yi Zhou, D Tzionas, Ya Zhou, D Ceylan, S Pirk, MJ Black
[Paper](#) — [Project Website](#) — [Github Code](#)
- 2 *ARCTIC: Articulated Objects in Free-form Hand Interaction* (Under Submission)
2023 Z Fan, **O Taheri**, D Tzionas, M Kocabas, M Kaufmann, MJ Black, O Hilliges
[Paper](#) — [Project Website](#)
- 3 *GOAL: Generating 4D Whole-Body Motion for Hand-Object Grasping*
CVPR - 2022 **O Taheri**, V Choutas, MJ Black, D Tzionas
[Paper](#) — [Project Website](#) — [Github Code](#)
- 4 *InterCap: Joint Markerless 3D Tracking of Humans and Objects in Interaction*
GCPR - 2022 Y Huang, **O Taheri**, MJ Black, D Tzionas
[Paper](#) — [Project Website](#) — [Github Code](#)
- 5 *GRAB: A Dataset of Whole-Body Human Grasping of Objects*
ECCV - 2020 **O Taheri**, N Ghorbani, MJ Black, D Tzionas
[Paper](#) — [Project Website](#) — [Github Code](#)

Research Interests

- o Virtual Avatar Animation
- o Grasp Prediction
- o Object-Interaction Detection
- o Human-Object Interaction
- o Motion Synthesis and Tracking
- o 3D Geometry Representation

Experience

Research & Work

Jun-Nov 2022	PhD Research Intern , <i>Adobe Inc.</i> ,	Remote, San Jose.
July 2022	ICVSS Summer School , Winner of the AWS reading-group challenge.	Sicily, IT.
July 2021	PAISS Summer School ,	Grenoble, Remote.
2018 - Present	Motion Capture , <i>Max Planck Institute for Intelligent Systems</i> , Collecting motion data with various systems including:	Tuebingen, DE.

- o Vicon MoCap System
- o RGB Cameras
- o Pressure Sensors
- o 3D Scanners
- o IMU Sensors
- o Gaze Tracker

2016 - 2017	Motion Analysis Researcher , <i>Movafaghian Research Center</i> , Capturing and analyzing human motion data using IMU sensors and RGB cameras.	Tehran, IR.
2015 - 2016	Control Engineer , <i>Rahpooyane Aflak Corporation</i> , Head of the control team in a project for tele-driving of manual cars	Tehran, IR.
2014 - 2015	Startup , <i>Self-Employment</i> , Design and Fabrication of a Controller Board for AC to DC Conversion	Tehran, IR.
Jun-Sep 2014	Summer Internship , <i>Kian-Control Corporation</i> , Worked on automation of a company production line using Siemens PLCs	Isfahan, IR.

Teaching

Jan-Jun 2015	Teaching Assistant, B.Sc. , <i>Sharif University of Technology</i> , o Mechanics of Materials and Statics o Dynamic and Control Laboratory	Tehran, IR.
Jan-Jun 2014	Teaching Assistant, B.Sc. , <i>Isfahan University of Technology</i> , Mechatronics Laboratory	Isfahan, IR.

Awards & Honors

2023	Selected as Finalist , <i>Meta PhD Fellowship Program</i> ,	Meta Inc.
2022	Winner of the AWS reading group competition , <i>ICVSS Summer School</i> ,	Sicily, IT.
2021	Admitted to IMPRS-IS Program , <i>MPI for Intelligent Systems</i> ,	Tuebingen, DE.
2018	Ph.D. Fellowship , <i>Max Planck Institute for Intelligent Systems</i> ,	Tuebingen, DE.
2018	Ph.D. Fellowship (Declined) , <i>Sharif University of Technology</i> ,	Tehran, IR.
2014 - 2018	Member of Iran's National Elites Foundation ,	Tehran, IR.
2010 - 2017	Recognized as Exceptionally-Talented Student ,	Tehran, IR.
2014	Honary M.Sc. Admission , <i>Sharif University of Technology</i> ,	Tehran, IR.
2014	M.Sc. Fellowship (Declined) , <i>Amirkabir & Isfahan Uni of Technology</i> ,	Tehran, IR.
2013 & 2014	Ranked 4th & 6th in National Olympiad of Mech. Eng. ,	Tehran, IR.

2010 - 2014 **Ranked 1st in Mechanical Engineering Department in B.Sc.**, Isfahan, IR.
 2010 **Among Top 0.5% in National University Entrance Exam**, Isfahan, IR.

Skills

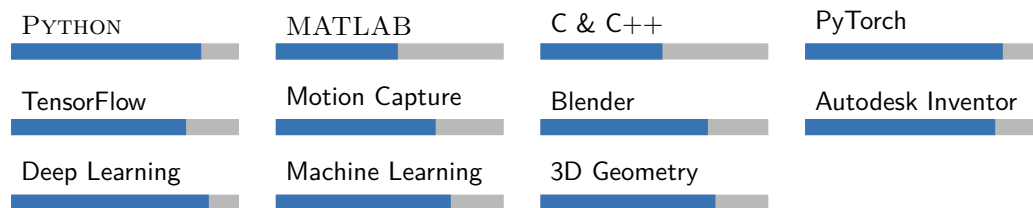
–Team Management

2019 - 2021 **Data Capturing and Data Cleaning Team**, *MPI for Intelligent Systems*, Tuebingen, DE.
 Managing a team of three persons working on capturing and cleaning motion data.
 2015 - 2016 **Control Engineering Team**, *Rahpooyane Aflak Corporation*, Tehran, IR.
 Managing a team of three students working on control and tele-drive of manual cars.

–Mentoring

2022 **Farzaneh Seyedshahi**, *Co-Supervised*, MPI for Intelligent Systems, Tuebingen, DE.

–Tools & Topics



Talks & Presentations

2022 **GOAL: Generating 4D Whole-Body Motion for Hand-Object Grasping** (*Poster*), @CVPR.
 2021 **Training Avatars How to Grasp 3D Objects** (*Poster*), @PAISS Summer School.
 2021 **Training Virtual Humans How to Interact With Objects** (*Lightning Talk*),
Honorable mention prize as a top 5% talk, @IMPRS Bootcamp - Tuebingen, DE.
 2020 **GRAB: A Dataset of Whole-Body Human Grasping of Objects** (*Talk & Poster*),
 @ECCV - Online.
 2020 **GRAB: A Dataset of Whole-Body Human Grasping of Objects** (*Talk*),
 @MPI_IS - Tuebingen, DE.
 2019 **Accurate Hand Tracking using IMU sensors** (*Talk*), @MPI_IS - Tuebingen, DE.
 2017 **Gait Tracking and Analysis Using IMU and RGB Camera Data Fusion Using EKF** (*Talk*),
 @SUT - Tehran, IR.

Community Service

Paper Review

2022 ○ **CVPR** (2 Papers) ○ **IJCV** (1 Paper)
 2021 ○ **3DV** (3 Papers) ○ **TPAMI** (1 Paper) ○ **ICCV** (3 Papers)
 2020 ○ **CVPR** (1 Paper) ○ **ECCV** (1 Paper)