Yue Jiang

yuejiang@mpi-inf.mpg.de

Website: https://yuejiang-nj.github.io/
LinkedIn: www.linkedin.com/in/yuejianguoft
Google Scholar: shorturl.at/zDN56

Education

2020 - **Ph.D** in **Graphics, Vision & Video Group**
Max Planck Institute for Informatics (MPII), Germany
Supervisor: Prof. Christian Theobalt

2018 - 2020 **Master of Science** in **Computer Graphics**
University of Maryland, College Park, USA
Supervisor: Prof. Matthias Zwicker

2014 - 2017 **Honors Bachelor of Science** in **Computer Science Specialist and Mathematics Major (High Distinction)** [Degree granted in 2018.]
University of Toronto, Canada
Supervisor: Prof. Gerald Penn

Publications

[7] **Yue Jiang**, Wolfgang Stuerzlinger, Christof Lutteroth. ReverseORC: Reverse Engineering of Resizable User Interface Layouts with OR-Constraints. *In Proceedings of the 39th Annual SIGCHI Conference on Human Factors in Computing Systems (**CHI2021**).*

[6] Karan Ahuja, **Yue Jiang**, Mayank Goel, Chris Harrison. Synthesizing Doppler Radar Data from Videos for Training Privacy-Preserving Activity Recognition. *In Proceedings of the 39th Annual SIGCHI Conference on Human Factors in Computing Systems (**CHI2021**).*

[5] Zhicong Lu, **Yue Jiang**, Chenxinran Elise Shen, Margaret C Jack, Daniel Wigdor, Mor Naaman. Study of Perceptions of COVID-19 Misinformation in China. *In Proceedings of the 24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (**CSCW2021**).*

[4] **Yue Jiang**, Dantong Ji, Zhizhong Han, Matthias Zwicker. SDFDiff: Differentiable Rendering of Signed Distance Fields for 3D Shape Optimization. *Conference on Computer Vision and Pattern Recognition (**CVPR2020 Oral Top 5%**).*

[3] **Yue Jiang**, Wolfgang Stuerzlinger, Matthias Zwicker, Christof Lutteroth. ORC-Solver: An Efficient Solver for Adaptive GUI Layout with OR-Constraints. *In Proceedings of the 38th Annual SIGCHI Conference on Human Factors in Computing Systems (**CHI2020**).*

[2] Zhicong Lu, **Yue Jiang**, Cheng Lu, Mor Naaman, Daniel Wigdor. The Government's Dividend: Complex Perceptions of Social Media Misinformation in China. *In Proceedings of the 38th Annual SIGCHI Conference on Human Factors in Computing Systems (**CHI2020**).*

[1] **Yue Jiang**, Ruofei Du, Christof Lutteroth, Wolfgang Stuerzlinger. ORCLayout: Adaptive GUI Layout with OR-Constraints. *In Proceedings of the 37th Annual SIGCHI Conference on Human Factors in Computing Systems (**CHI2019**).*

Patent

[1] **Yue Jiang**, Vlad Morariu, Christopher Tensmeyer, Rajiv Jain, Varun Manjunatha. Responsive Document Using OR Constraint Optimization (Under Review)

Demo

[1] Yue Jiang. DocShop: Bringing Document Content to Life (Mentor: Vlad Morariu). *2020 Adobe Research Project Expo*

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Professional Experience

Mar 2020 – Aug 2020 Research Intern
Adobe Research, College Park, Maryland
Mentor: Vlad Morariu
- Document Intelligence Lab.
- Created a new document layout with dynamic viewing.

May 2017 – April 2018 Software Engineer
Intel Corporation, San Jose, California
- Programmable Intellectual Property Engineering (PIPE) Infrastructure Group.
- Developed software tools for all FPGA IP groups at Intel. (Python, Perl)

Academic Service and Awards (Program Committee)

2021 **Associate Chair (AC)**, CHI Late Breaking Work (SIGCHI Short Paper)
2020 **Special Recognitions for Outstanding Reviews for CHI2021**
2020 **Associate Chair (AC)**, CHI Late Breaking Work (SIGCHI Short Paper)
2019 - 2020 **Ph.D. & Master Admission Committee Member**, University of Maryland, College Park, USA

Academic Service (Reviewing (26 papers))

2020 - 2021 SIGCHI Conference on Human Factors in Computing Systems (CHI)
2019 - 2021 SIGCHI Late Breaking Work (CHI LBW)
2020 Australian Computer-Human Interaction Conference (OzCHI)
2020 ACM International Conference on Interactive Surfaces and Spaces (ISS)
2020 ACM Symposium on Virtual Reality Software and Technology (VRST)
2020 ACM User Interface Software and Technology Symposium (UIST)
2020 IEEE Virtual Reality Conference (IEEE VR)
2019 IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
2019 Pacific Graphics (PG)
2019 IFIP Conference on Human-Computer Interaction (INTERACT)
2019 Graphics Interface (GI)

Invited Talks

Dec 2, 2020 **Adaptive GUI Layout**
DGP HCI Session, University of Toronto, Canada (Hosted by DGP Lab)

Sept 4, 2020 **Responsive Document Using OR Constraint Optimization**
Document Intelligence Lab Talk, Adobe Research, USA (Hosted by Vlad Morariu)

Aug 18, 2020 **High-Speed, High-Accuracy, Low-Latency Touch Tracking**
Apple Annual Showcase for FIGLab, Apple & CMU, USA (Hosted by Chris Harrison)

Aug 18, 2020 **Doppler Radar for Activity Recognition**
Apple Annual Showcase for FIGLab, Apple & CMU, USA (Hosted by Chris Harrison)

July 31, 2020 **High-Speed, High-Accuracy, Low-Latency Touch Tracking**
FIGLab Research Review Presentation, Apple & CMU, USA (Hosted by Chris Harrison)

July 31, 2020 **Doppler Radar for Activity Recognition**
FIGLab Research Review Presentation, Apple & CMU, USA (Hosted by Chris Harrison)

July 14, 2020 **Document Layout with OR-Constraints**
Graphics Intelligence Lab Talk, Adobe Research, USA (Hosted by Paul Asente)

June 27,2020 **SDFDiff: Differentiable Rendering of Signed Distance Fields for 3D Shape Optimization**
DeeCamp AI Training Camp, AI Institute of Sinovation Ventures, China (Hosted by Ran Zhang (IST Austria))

May 29, 2020 **ORCSolver: An Efficient Solver for Adaptive GUI Layout with OR-Constraints**
German CHI Week, German HCI, Germany (Hosted by Teresa Hirzle & Christina Schnegass)

May 20, 2020 **ORCSolver: An Efficient Solver for Adaptive GUI Layout with OR-Constraints**
BathCHI 2020 Seminar, University of Bath, UK (Hosted by Christof Lutteroth)

May, 2020 **SDFDiff: Differentiable Rendering of Signed Distance Fields for 3D Shape Optimization**
Technical Paper Talk at CVPR2020 Session in 3D from Multiview and Sensors, Seattle, USA

May, 2020 **ORCSolver: An Efficient Solver for Adaptive GUI Layout with OR-Constraints**
Technical Paper Talk at CHI2020 Session in GUI Design, Honolulu, USA

Dec 3, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
Document Intelligence Lab Talk, Adobe Research, USA (Hosted by Vlad Morariu & Tong Sun)

July 11, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
Visual Computing Summer School 2019, Shenzhen University, China (Hosted by Hui Huang)

May 15, 2019 **Signed Distance Function Based Differentiable Rendering**
Capital Graphics 2019, George Mason University, Arlington, VA, USA (Hosted by Yotam Gingold)

May 7, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
Technical Paper Talk at CHI2019 Session in Intelligent Systems and Interfaces, Glasgow, UK (Hosted by Claudio Pinhanez (IBM))

May 2, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
UMD HCI Lab BBL Talk, University of Maryland, USA

April 4, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
Human-Computer Interaction Lab 36th Annual Symposium, USA (Hosted by Niklas Elmqvist)

April 1, 2019 **ORC Layout: Adaptive GUI Layout with OR-Constraints**
UMD HCI Lab SIGCHI Paper Talk Session, University of Maryland, USA (Hosted by Hernisa Kacorri)

Jun 21, 2018 **Neural Programmer Interpreter**
Knowledge Representation and Reasoning Talk Session, University of Toronto, Canada (Hosted by Sheila McIlraith)

Nov 8, 2016 **Vector Addition Systems Reachability Problem**
Mathematical Linguistics Talk Session, University of Toronto, Canada (Hosted by Gerald Penn)

Oct 25, 2016 **Supertagging: A Non-Statistical Parsing-Based Approach**
Mathematical Linguistics Talk Session, University of Toronto, Canada (Hosted by Gerald Penn)

Oct 3, 2016 **Reachability Problems for Vector Addition Systems**
University of Toronto Undergraduate Computer Theory Talk Session, University of Toronto, Canada

July 20, 2016 **Reachability Problems and Vector Addition Tree Automata**
Undergraduate Summer Research Program (UGSRP) Talk, University of Toronto, Canada

Teaching Experience

Jan 2020 – May 2020 CMSC740 **Advanced Computer Graphics**
Department of Computer Science, University of Maryland
Instructor: Prof. Matthias Zwicker

Aug 2019 – Dec 2019 CMSC427 **Computer Graphics**
Department of Computer Science, University of Maryland
Instructor: Prof. Matthias Zwicker

Aug 2018 – Dec 2018 CMSC427 **Computer Graphics**
Department of Computer Science, University of Maryland
Instructor: Prof. Matthias Zwicker

Jan 2017 – Apr 2017 CSC263 **Data Structures and Analysis**
Department of Computer Science, University of Toronto
Instructors: Prof. Sam Toueg and Prof. Francois Pitt

Sept 2016 – Dec 2016 CSC263 **Data Structures and Analysis**
Department of Computer Science, University of Toronto
Instructor: Prof. David Liu

Jan 2016 CSC165 **Mathematical Expression and Reasoning for computer Science**

– Apr 2016 Department of Computer Science, University of Toronto
Instructors: Dr. Ilir Dema and Dr. Abdallah Farraj

Sept 2015 – Apr 2016 Peer Tutor for MAT223/224 **Linear Algebra I & II**
Department of Mathematics, University of Toronto

Sept 2015 – Apr 2016 Peer Tutor for MAT137 **Calculus**
Department of Mathematics, University of Toronto

Summer 2014 Teaching Volunteer for High School **Mathematics** and **Physics**
U of Toronto Touching Lives Overseas, Qinyuan, Shanxi Province, China

Grants and Honours

Sept. 2020 Adobe Research Gift Grant for Document Intelligent Research ($10,000)
May 2020 Adobe Research Gift Grant for Document Intelligent Research ($10,000)
2019 Jacob K. Goldhaber Travel Grant Award
2019 Department of Computer Science Travel Grant Award, University of Maryland
2018 - 2020 Graduate Dean's Scholarship, University of Maryland, College Park ($10,000)
Sept. 2018 Maryland Center For Women In Computing (MCWIC) Grace Hopper Scholarship
2014 - 2018 Dean's List Scholar, University of Toronto
2014 - 2016 New College Council In-Course Scholarship, University of Toronto
2014 - 2015 Award for Outstanding Achievement in Mathematical Expression and Reasoning for Computer Science, University of Toronto
2012 National Olympiad in Biology in Provinces, First Prize
2011 China Adolescents Science and Technology Innovation Contest, First Prize

Mentoring Experience

Students Mentored:

2020 Duotun Wang (currently research master student at University of Maryland)

2018, 2019 **Graduate Mentor for Technica (All-Women Hackathon)**

2018, 2019 **Graduate Mentor at Maryland Center For Women In Computing (MCWIC) Peer mentoring**

University Service

March 2019 **Ph.D Student Panel Leader for Prospective Students**
University of Maryland, College Park, USA

Nov 2018, Nov 2019 **Graduate Volunteer for Technica Research Bootcamp**
University of Maryland, College Park, USA

2016 **Department of Mathematics Ambassador** – University of Toronto
University of Toronto, Canada

Press Coverage

2020 Our ORC Layout has been applied in products including Adobe Acrobat and Phase `https://phase.com` in real life.

May 8, 2019 **Eases the pain of multiple UI designs** – IT Works Solution

May 7, 2019 **New open source software eases the pain of multiple UI designs** – Phys.org

May 7, 2019 **New software eases the pain of multiple UI designs** – University of Bath, UK

Voluntary Experience

Nov 2020 Student Volunteer for ACM Interactive Surfaces and Spaces **(ISS2020)**, Lisbon, Portugal

April 2019 Student Volunteer for **Human-Computer Interaction Lab 36th Annual Symposium**, Maryland, USA

May 2016 Volunteer for **Doors Open Toronto 2016**, City Cultural Events, Toronto, Canada

Technical Skills

Programming: Python, C/C++, Java, Matlab, Perl, CUDA

Other Tools: PyTorch, OpenGL, OpenCV, Numpy, Scipy, NLTK, Scikit-learn, LateX, SQL, Splunk, SVN, Github, Perforce, Unity, Fusion360, 3D Max

References

Mentors and collaborators who have written references for me:
Prof. Christian Theobalt – Professor, Max Planck Institute for Informatics, Germany
Prof. Wolfgang Stuerzlinger – Professor, Simon Fraser University, Canada
Prof. Christof Lutteroth – Associate Professor, University of Bath, UK
Prof. Matthias Zwicker – Professor, University of Maryland, College Park, USA
Prof. Gerald Penn – Professor, University of Toronto, Canada
Prof. Sam Toueg – Professor, University of Toronto, Canada