Yong Li

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RESEARCH INTERESTS

Computer graphics, geometry processing, human–computer interaction, programming languages, compilers, deep learning

EDUCATION

George Mason University Fairfax, VA
Ph.D. in Computer Science, GPA: 3.98/4.0 *Aug. 2019–May. 2024*
Advisor: Yotam Gingold

Sun Yat-sen University Guangzhou, China
M.Eng. in Computer Technology, GPA: 3.7/4.0 *Aug. 2013–Jun. 2015*
Advisor: Weigang Wu

Sun Yat-sen University Guangzhou, China
B.S. in Network Engineering, GPA: 3.7/4.0 *Sep. 2009–Jun. 2013*

PUBLICATIONS

Yong Li, Shoaib Kamil, Keenan Crane, Alec Jacobson, Yotam Gingold. 2024. I❤MESH: A DSL for Mesh Processing. *ACM Transactions on Graphics (TOG) 43(5). Also in Proceedings of SIGGRAPH Asia 2024.*

Chuan Yan, **Yong Li**, Deepali Aneja, Matthew Fisher, Edgar Simo-Serra, Yotam Gingold. 2024. Deep Sketch Vectorization via Implicit Surface Extraction. *ACM Transactions on Graphics (TOG) 43(4). Also in Proceedings of SIGGRAPH 2024.*

Yong Li, Shoaib Kamil, Alec Jacobson, Yotam Gingold. 2022. H❤rtDown: Document Processor for Executable Linear Algebra Papers. *Proceedings of SIGGRAPH Asia 2022 (conference track paper)*

Yong Li, Shoaib Kamil, Alec Jacobson, Yotam Gingold. 2021. I❤LA: Compilable Markdown for Linear Algebra. *ACM Transactions on Graphics (TOG) 40(6). Also in Proceedings of SIGGRAPH Asia 2021. Also at ICLR 2021 Workshop: Rethinking ML Papers* (oral presentation and exhibit).

Zhiwei Yang, Weigang Wu, **Yong Li**, Yishun Chen. 2018. Cluster-based Efficient Information Dissemination in Dynamic Networks. *International Journal of Distributed Sensor Networks. 2018, Vol. 14(3).*

Yong Li, Lihui Wu, Ning Huang, Weigang Wu. 2015. Geographically distributed replication management based on HBase. *Chinese Journal of Computer Applications, 2015, 35(11):3097-3101.*

Di Yang, Weigang Wu, Zhansong Li, Jiongyu Yu, **Yong Li**. 2014. PPMS: A Peer to Peer Metadata Management Strategy for Distributed File Systems. *NPC 2014: 435-445.*

WORK EXPERIENCE

Research intern May.–Aug. 2021/2022
Mentored by Shoaib Kamil *Adobe (remote)*

Senior software developer May. 2015–Aug. 2019
Worked on Baidu Map and Baidu Antivirus Software *Baidu (Shenzhen)*

TALKS

Toronto Geometry Colloquium Nov. 2021
"I❤LA: Compilable Markdown for Linear Algebra" *Virtual*

AWARDS AND HONORS

Distinguished Academic Achievement, George Mason University *May. 2024*

Research Initiation Award, George Mason University *May. 2020*

Outstanding individual in the fourth quarter, Department of Map, Baidu *Jan. 2018*

Best individual in the year, Emerging Business Group, Baidu *Jan. 2017*

Third Prize in the Cisco Network Technology Competition, China *Jul. 2013*

Xianzi Zeng Scholarship, Sun Yat-sen University *Nov. 2011*

Xianzi Zeng Scholarship, Sun Yat-sen University *Nov. 2010*

TEACHING EXPERIENCE

Volgenau School of Engineering, George Mason University
TA for CS663 Computational Design *Spring 2022*
TA for CS584 Data Mining *Fall 2022*
TA for CS551 Computer Graphics *Fall 2020*
TA for CS484 Data Mining *Fall 2021, Fall 2022*
TA for CS451 Computer Graphics *Spring 2021*
TA for CS330 Formal Methods and Models *Spring 2022, Fall 2023, Spring 2024*
TA for CS262 Intro. to Low-level Programming *Fall 2019, Spring 2020*

Cisco Networking Academy Program, Sun Yat-sen University *May 2012*
TA for CCNA experiments

Beitou Middle School, Heyuan City, Guangdong Province, China *July 2010*
Teaching middle school mathematics to elementary school graduates

ACADEMIC ACTIVITIES

Mentor at the Summer Geometry Initiative (SGI) at MIT Aug. 2022
I❤LA convex optimization cookbook (Mentors: Alec Jacobson, Yotam Gingold and Yong Li) *Virtual*

Visiting the Geometry Collective at Carnegie Mellon University May. 2022–Aug. 2022
Mentored by Keenan Crane *Pittsburgh*