

Iman Sadeghi PhD

Principal Software & Technology Consultant

323-545-4642

iman@quandarypeak.com

Quandary Peak Research

205 S Broadway, Suite 300

Los Angeles, CA 90012

quandarypeak.com/iman

As an award-winning computer scientist and software engineer with a doctorate and master's degree in Computer Science from the University of California, San Diego, my professional journey spans prestigious organizations such as Google, Walt Disney Animation Studios, and Lucasfilm. These valuable experiences have enriched my expertise in a broad range of computer science and software engineering disciplines.

At Quandary Peak Research, I specialize in delivering deposition/trial testimony, declarations, and reports in the fields of computer graphics, 3D rendering, 3D animation, 3D geometry processing, software engineering, system architecture, algorithms, and data structures, as well as source code analysis for software litigation. My focus revolves around patent infringement, trade secret misappropriation, intellectual property violation, copyright piracy, and breach-of-contract matters. Leveraging my expertise, I analyze complex software systems, evaluate software production quality, and elucidate software functionalities. This crucial analysis empowers legal professionals with indispensable insights into the technical aspects of their cases.

Education

Ph.D. in Computer Science

University of California, San Diego | La Jolla, CA | 2008–2011

Ph.D. Dissertation: Controlling the Appearance of Specular Microstructures

M.Sc. in Computer Science

University of California, San Diego | La Jolla, CA | 2006–2008

M.Sc. Thesis: Photorealistic Rendering of Human Hair Fibers

B.Sc. in Computer Engineering

Sharif University of Technology | Tehran, Iran | 2002–2006

B.Sc. Thesis: Optimal Point Removal in Closed-2PM Labeling

Filed Patents

- **Google** | 2014–2016
 - **Event Grouping Using Time Zones** · GP-21579-00-US · US 2016/0027037 A1
 - **Cross-Campaign Event Attribution** · GP-21577-00-PR
 - **Late Conversion Event Attribution** · GP-21580-00-US
 - **Event Attribution Using Backfill Operation** · GP-21581-00-US
 - **Event Attribution and Frequency Grouping** · GP-21578-00-US
- **Walt Disney Animation Studios** | 2010–2014
 - **System and Method for Artist Friendly Controls for Hair Shading** · US 8,674,988 B2 · US 2011/0304623 A1

Select Employment

Quandary Peak Research

Principal Software & Technology Consultant | Los Angeles, CA | June 2023–Present

- Providing deposition/trial testimony, declarations, and expert reports in the fields of computer graphics, 3D rendering, 3D animation, 3D geometry processing, software engineering, system architecture, algorithms, and data structures.
- Conducting in-depth source code analysis in software litigation involving patent infringement, trade secret misappropriation, intellectual property violation, copyright piracy, and breach-of-contract matters.
- Empowering legal professionals with indispensable insights into the technical aspects of their cases.

Google

Researcher / Software Engineer | Santa Monica, CA & Venice, CA | 2011–2017

- Gained experience with robust software system architectures, reliable scalable distributed systems, and deep convolutional neural networks.
- **Machine Learning [2015–2017]**
 - Worked on optimizing Artificial Intelligence models and Deep Convolutional Neural Networks used in Google's Face Tracking and Face Recognition.
- **Advertisement [2013–2015]**
 - Worked on reporting, targeting, and optimizing Reach and Frequency metrics for brand advertisers with a focus on views (CPM) versus clicks (CPC) in Google AdSense.
- **Image Processing [2011–2013]**
 - Worked on image encoding, editing, and compression as well as auto-enhancement features in Google Photos.

ILM: Industrial Light & Magic

Research & Development Engineer | San Francisco, CA | 2010

- Worked and conducted research in Lucasfilm's Visual Effects R&D Department on designing and implementing a volumetric approximation for 3D geometry occlusion under image-based lighting.

Walt Disney Animation Studios

Research & Development Engineer / Consultant | Burbank, CA | 2008 & 2009

- Worked and conducted research in the Look Development Department on designing, implementing, publishing, and patenting "An Artist Friendly Hair Shading System" for the production of the Disney movie "Tangled."

CISA3: Center of Interdisciplinary Science for Art, Architecture and Archaeology

Graduate Researcher & Developer | La Jolla, CA | 2007–2008

- Worked and conducted research in the Visualization Group on 3D rendering and real-time visualization.

Calit2: California Institute for Telecommunications and Information Technology

Computer Graphics Engineer | La Jolla, CA | 2007

- Worked and conducted research in the Immersive Visualization Lab on 3D rendering and real-time visualization.

Jacobs School of Engineering, University of California San Diego

Graduate Research Associate | La Jolla, CA | 2007–2011

- Conducted research on computer graphics, photorealistic rendering, and advanced appearance modeling.

IPM: Institute for Studies in Theoretical Physics and Mathematics

Undergraduate Research Associate | Tehran, Iran | 2005–2006

- Conducted research on designing optimal algorithms for map labeling.

Pinscreen

Vice President of Engineering | Santa Monica, CA | 2017

- Worked on the development and rendering of user-generated and personalized 3D virtual avatars.

Litigation Consulting

- **Perceptive Automata LLC v. Tesla, Inc.** | Jan 2026–Present
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 2:25-cv-00742
Counsel: Nelson Bumgardner Conroy PC
Nature of Suit: Patent
Technology: Image Processing, Computer Vision, Autonomous Driving, Machine Learning, Artificial Intelligence (AI)
- **Spotlight Ticket Management, Inc. v. Concierge Live, LLC** | Jan 2026–Present
Jurisdiction: U.S. District Court for the Central District of California
Case Number: 2:24-cv-00859
Counsel: Hinckley & Heisenberg LLP
Nature of Suit: False Advertising, Technical Analysis
Technology: Software Integration, Application Programming Interfaces (APIs), Software as a Service (SaaS)
- **QOMPLX LLC v. Palo Alto Networks, Inc.** | Jan 2026–Present
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 2:25-cv-00913
Counsel: Irell & Manella LLP
Nature of Suit: Patent
Technology: Cybersecurity, Distributed Computational Graphs, Cyber Threat Detection & Risk Modeling
- **Oracle Corporation v. ViloX Technologies, LLC, et al.** | Jan 2026–Present
Jurisdiction: U.S. District Court for the District of Delaware
Case Number: 1:23-cv-00126
Counsel: Hudnell Law Group P.C.
Nature of Suit: Patent
Technology: Database Management Systems (DBMS), Search & Retrieval Systems, Dynamic Query Processing
- **Network Experts, Inc. v. Beverly Hills IT Services, Beverly Hills IT, Mostafa Karbalei Baboli a.k.a. Stephan Parsa** | Jan 2026–Jan 2026
Jurisdiction: Superior Court of California, Los Angeles County
Case Number: 23SMCV00517
Counsel: The Ceja Firm
Nature of Suit: Trade Secret, Breach of Contract, Unfair Competition, Technical Analysis
Technology: Customer Relationship Management (CRM), Network & IT Service Management (ITSM) Infrastructure, Proprietary Quoting Systems

- **The Innkeepers S.R.L., Damien Thivolle and Vlad-Matei Mladin v. Enthusiast Gaming Holdings Inc.** | Nov 2025–Present
Jurisdiction: Ontario Superior Court of Justice
Case Number: CV-25-00745619-00CL
Counsel: Aird & Berlis LLP
Nature of Suit: Breach of Contract, Technical Analysis
Technology: Content Management Systems (CMS), Web Software Architecture, Online Games
- **Twitch Interactive, Inc. v. Razdog Holdings LLC**
Inter Partes Review of U.S. Patent No. 10,334,068 | Oct 2025–Present
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-00308
Counsel: Villegas & Cefo, LLP
Nature of Suit: Patent
Technology: Real-Time Video Streaming, Web Content Management, Cloud-Based Content Delivery
- **Twitch Interactive, Inc. v. Razdog Holdings LLC**
Inter Partes Review of U.S. Patent No. 9,729,658 | Oct 2025–Present
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-00307
Counsel: Villegas & Cefo, LLP
Nature of Suit: Patent
Technology: Real-Time Video Streaming, Web Content Management, Cloud-Based Content Delivery
- **USA Herald LLC v. John Monarch, et al.** | Sept 2025–Present
Jurisdiction: U.S. District Court for the Central District of California
Case Number: 8:25-cv-00569
Counsel: Quintairos, Prieto, Wood & Boyer, PA
Nature of Suit: Copyright
Technology: Digital Millennium Copyright Act (DMCA) Notices, Search Engine De-Indexing, Web Publishing
- **Shenzhen Qianfenyi Intelligent Technology Co., LTD. (a.k.a. Maxeye) v. Wacom Co., LTD.**
Inter Partes Review of U.S. Patent No. 10,108,277 | Sept 2025–Feb 2026
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-01596
Counsel: Dorsey & Whitney, LLP
Nature of Suit: Patent
Technology: User Interface, Input Devices, Sensing Technology
- **Shenzhen Qianfenyi Intelligent Technology Co., LTD. (a.k.a. Maxeye) v. Wacom Co., LTD.**
Inter Partes Review of U.S. Patent No. 9,977,519 | Sept 2025–Feb 2026
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-01533
Counsel: Dorsey & Whitney, LLP
Nature of Suit: Patent
Technology: User Interface, Input Devices, Sensing Technology
- **Xsolla (USA), Inc. v. Constantin Andry and Konstantin Golubitsky** | Aug 2025–Present
Jurisdiction: American Arbitration Association
Case Number: 01-24-0004-6336
Counsel: Orrick Herrington and Sutcliffe LLP
Nature of Suit: Arbitration, Technical Analysis
Technology: Game Backend Platforms, Payment Systems, Personalization & Analytics

- **3D Systems Corporation and 3D Systems, Inc. v. Intrepid Automation, Inc.**
Inter Partes Review of U.S. Patent No. 11,338,511 | Aug 2025–Present
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-01242
Counsel: Smith, Gambrell & Russell, LLP
Nature of Suit: Patent
Technology: 3D Printing, Multi Projection, Geometric Correction, Edge Blending
- **3D Systems Corporation and 3D Systems, Inc. v. Intrepid Automation, Inc.**
Inter Partes Review of U.S. Patent No. 11,014,301 | Aug 2025–Present
Jurisdiction: U.S. Patent and Trademark Office (USPTO)
Case Number: IPR2025-01241
Counsel: Smith, Gambrell & Russell, LLP
Nature of Suit: Patent
Technology: 3D Printing, Multi Projection, Geometric Correction, Edge Blending
- **Xsolla (USA), Inc. v. Aghanim Inc., et al.** | July 2025–Present
Jurisdiction: U.S. District Court for the Central District of California
Case Number: 2:24-cv-02116
Counsel: Orrick Herrington and Sutcliffe LLP
Nature of Suit: Trade Secret
Technology: Game Backend Platforms, Payment Systems, Personalization & Analytics
- **Deltux Software Company Inc. v. Apptivo, Inc., et al.** | June 2025–Present
Jurisdiction: Superior Court of California, Orange County
Case Number: 30-2021-01195551
Counsel: Burkhalter Kessler Clement & George LLP
Nature of Suit: Trade Secret, Breach of Contract, Technical Analysis
Technology: Mobile Apps, Customer Relationship Management (CRM), Geo-Analytics
- **Wave Sense, LLC v. Samsung Electronics Co. Ltd and Samsung Electronics America, Inc.** | May 2025–Present
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 2:24-cv-00920
Counsel: Skiermont Derby, LLP
Nature of Suit: Patent
Technology: Digital Signal Processing, Motion Detection, Sensing Technology
- **Amy Camille Krueger v. HTC America Inc., T & T Entertainment, Inc., HTC Corporation, HTC Vive Tech Corp., Valve Corp., Toast VR Pty. Ltd., et al.** | May 2025–Present
Jurisdiction: Superior Court of California, Placer County
Case Number: s-cv-0047000
Counsel: Greenbaum Law Firm
Nature of Suit: Personal Injury, Technical Analysis
Technology: Virtual Reality (VR), Immersive Simulation, Motion Tracking
- **Yieldmo, Inc. v. Teads, Inc., Teads SA, Teads S.a.r.l.** | May 2025–Present
Jurisdiction: U.S. District Court for the Southern District of New York
Case Number: 1:25-cv-00737
Counsel: Global IP Law Group LLC
Nature of Suit: Patent
Technology: Digital Advertising, Interactive Media, Dynamic Content Delivery

- **Razdog Holdings LLC v. Twitch Interactive, Inc.** | Apr 2025–Present
Jurisdiction: U.S. District Court for Northern District of California
Case Number: 5:24-cv-03638
Counsel: Villegas & Cefo, LLP
Nature of Suit: Patent
Technology: Real-Time Video Streaming, Web Content Management, Cloud-Based Content Delivery
- **Revenue Management Solutions, LLC v. Commerce Bank** | Apr 2025–Present
Jurisdiction: U.S. District Court for the Western District of Missouri
Case Number: 4:25-cv-00140
Counsel: Banner Witcoff
Nature of Suit: Trade Secret
Technology: Software as a Service (SaaS), Data Processing, Large Language Models (LLMs)
- **Algebraix LLC v. International Business Machines Corporation (IBM)** | Mar 2025–Present
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 2:24-cv-00999
Counsel: Nelson Bumgardner Conroy PC
Nature of Suit: Patent
Technology: Distributed Systems, Cloud Computing, Databases
- **Certain Wireless Communication Devices and Components Thereof: International Semiconductor Group v. Dell, HP, Lenovo** | Mar 2025–Present
Jurisdiction: International Trade Commission (ITC)
Case Number: 337-TA-1429
Counsel: Sterne, Kessler, Goldstein & Fox PLLC
Nature of Suit: Patent
Technology: Wireless Communication, Data Transmission, Digital Signal Processing
- **Wacom Co., Ltd. v. Shenzhen Qianfenyi Intelligent Technology Co., Ltd. (a.k.a. Maxeye)** | Feb 2025–Feb 2026
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 2:24-cv-00702
Counsel: Dorsey & Whitney LLP
Nature of Suit: Patent
Technology: User Interface, Input Devices, Sensing Technology
- **Intrepid Automated, Inc. v. 3D Systems Corporation** | Jan 2025–Present
Jurisdiction: U.S. District Court for the Southern District of California
Case Number: 3:24-cv-02262
Counsel: Smith, Gambrell & Russell, LLP
Nature of Suit: Patent
Technology: 3D Printing, Multi Projection, Geometric Correction, Edge Blending
- **Skillz Platform Inc. v. Voodoo SAS, et al.** | Oct 2024–Present
Jurisdiction: U.S. District Court for the Southern District of New York
Case Number: 1:24-cv-04991
Counsel: Jones Day
Nature of Suit: False Advertising, Unfair Competition, Technical Analysis
Technology: Online Games, Bot Detection, Asynchronous Matching

- **Geodis Logistics, LLC v. Grenzebach Corporation** | Sept 2024–May 2025
Jurisdiction: American Arbitration Association
Case Number: 01-23-0001-1178
Counsel: Bradley Arant Boult Cummings LLP
Nature of Suit: Breach of Contract, Arbitration, Technical Analysis
Technology: Software Engineering, Software Reliability, Memory Management
- **Convergent Assets, LLC v. Dick's Sporting Goods, Inc.** | Aug 2024–Present
Jurisdiction: U.S. District Court for the Eastern District of Texas
Case Number: 4:24-cv-00567
Counsel: Direction IP Law
Nature of Suit: Patent
Technology: Digital Advertising, Social Media, Ad Targeting
- **iSpot.tv, Inc. v. Nadya Teyfukova and Entertainment Data Oracle, Inc.** | Aug 2024–Jan 2026
Jurisdiction: U.S. District Court for the Central District of California
Case Number: 2:21-cv-06815
Counsel: Holwell Shuster & Goldberg LLP
Nature of Suit: Trade Secret, Breach of Contract, Technical Analysis
Technology: Digital Advertising, Databases, Application Programming Interfaces (APIs)
- **Universal Music Group Recordings, Inc. v. Frontier Communications Corp.** | July 2024–May 2025
Jurisdiction: U.S. District Court for the Southern District of New York
Case Number: 1:21-cv-05050|20-22476
Counsel: Day Pitney, LLP
Nature of Suit: Copyright
Technology: Internet Service Providers (ISPs), Internet Protocols, Peer-to-Peer (P2P) Networking
- **D4D Technologies, LLC v. Medit Corporation** | Apr 2024–Sept 2024
Jurisdiction: U.S. District Court for the Western District of Texas
Case Number: 6:21-cv-01176
Counsel: Scheef & Stone, LLP
Nature of Suit: Patent
Technology: 3D Scanning, 3D Geometry, Medical Imaging
- **InQuisient, Inc. v. ServiceNow, Inc.** | Mar 2024–Nov 2024
Jurisdiction: U.S. District Court for the District of Delaware
Case Number: 1:22-cv-00900
Counsel: Fish & Richardson P.C.
Nature of Suit: Patent
Technology: Cloud Solutions, Databases, Enterprise Software
- **Artec Europe S.A.R.L. v. Shenzhen Creality 3D Technology Co., Ltd., et al.** | Feb 2024–Present
Jurisdiction: U.S. District Court for the Eastern District of New York
Case Number: 1:22-cv-01676
Counsel: Munck Wilson Mandala, LLP
Nature of Suit: Patent, Copyright
Technology: 3D Scanning, Structured Light, Epipolar Geometry, User Interface

- **Electronic Devices Including Smartphones, Computers, Tablet Computers, and Components Thereof (Plaintiff v. Defendant)** | Dec 2023–Present
Jurisdiction: International Trade Commission (ITC)
Case Number: 337-TA-1373
Counsel: Alston & Bird, LLP
Retained by: InterDigital, Inc.
Nature of Suit: Patent
Technology: Video Codecs, Digital Signal Processing, System on a Chip (SoC)
- **3D Systems, Inc. v. Ben Wynne, et al.** | Sept 2023–Present
Jurisdiction: U.S. District Court for the Southern District of California
Case Number: 3:21-cv-01141
Counsel: Smith, Gambrell & Russell, LLP
Nature of Suit: Trade Secrets, Breach of Contract, Technical Analysis
Technology: 3D Printing, Multi Projection, Edge Blending
- **Avelardo Rivera and Yasmine Romero v. Amazon Web Services, Inc.** | July 2023–Present
Jurisdiction: U.S. District Court for the Western District of Washington
Case Number: 2:22-cv-00269
Counsel: Edelson P.C.
Nature of Suit: Class Action, Technical Analysis
Technology: Face Recognition, Cloud Computing, Privacy, Geo-Location

Technical Analysis & Audits

- **“The Terror of War” — Nick Ut’s Authorship of Pulitzer Prize-Winning Photograph** | Sept 2025–Present
Counsel: Law Office of Jim Hornstein
Nature of Analysis: Media Forensics & Scene Reconstruction
Technology: Photo Parametrization, Camera Reconstruction, Perspective Mapping
- **ECRS Software Corporation Technical Audit & Assessment** | Sept 2024–Feb 2025
Counsel: Wilson Elser Moskowitz Edelman & Dicker LLP
Nature of Analysis: Software Analysis
Technology: E-Commerce, Synchronization, Software Reliability

Intellectual Property Consulting

- **Farjami & Farjami LLP** | May 2025–Sept 2025
Nature of Consultation: Patent Analysis
Technology: Speech Recognition, Unsupervised Machine Learning, Artificial Intelligence (AI)
- **Confidential Technology Company** | May 2025–Present
Nature of Consultation: Patent Acquisition Analysis
Technology: Real-Time Ray Tracing, Bounding Volume Hierarchies (BVHs)
- **Confidential Technology Company** | Feb 2025–Present
Nature of Consultation: Patent Acquisition Analysis
Technology: Content Distribution, Navigation Systems
- **Confidential Technology Company** | Jan 2025–Present
Nature of Consultation: Patent Portfolio Analysis
Technology: Digital Advertising, Machine Learning, Artificial Intelligence (AI)

- **Confidential Technology Company** | Dec 2024–Present
Nature of Consultation: Patent Analysis
Technology: Video Codecs, Signal Processing, Streaming Technology
- **Confidential Technology Company** | Oct 2024–Present
Nature of Consultation: Patent Analysis
Technology: 5G, Wireless, Bluetooth and Operating System.
- **Sullivan & Cromwell, LLP** | May 2024–Present
Nature of Consultation: Patent Analysis
Technology: Load Balancing, Virtualization, Cloud Computing, Big Data
- **Security First Innovations, LLC** | Sept 2023–Present
Nature of Consultation: Patent Analysis
Technology: Security, Encryption, Cloud Storage, Big Data

Select Peer-Reviewed Publications

- **A Practical Microcylinder Appearance Model for Cloth Rendering** | 2013
Iman Sadeghi, Oleg Bisker, Joachim De Deken, and Henrik Wann Jensen
ACM Transactions on Graphics 32 (2), SIGGRAPH 2013.
- **Analysis and Design of Monolithic Resistors with Desired Temperature Coefficient** | 2013
Nima Sadeghi, Iman Sadeghi, and Shahriar Mirabbasi
IET Circuits, Devices & Systems.
- **Physically-Based Simulation of Rainbows** | 2012
Iman Sadeghi, Adolfo Munoz, Philip Laven, Wojciech Jarosz, Francisco Seron, Diego Gutierrez, and Henrik Wann Jensen
ACM Transactions on Graphics 31 (1), SIGGRAPH 2012.
- **Controlling the Appearance of Specular Microstructures** | 2011
Iman Sadeghi
Ph.D. Dissertation, Jacobs School of Engineering, University of California San Diego.
- **A Comprehensive Theory of Volumetric Radiance Estimation using Points & Beams** | 2011
Wojciech Jarosz, Derek Nowrouzezahrai, Iman Sadeghi, Henrik Wann Jensen
ACM Transactions on Graphics 30 (1), SIGGRAPH 2011.
- **An Artist Friendly Hair Shading System** | 2010
Iman Sadeghi, Heather Pritchett, Henrik Wann Jensen, Rasmus Tamstorf
ACM Transactions on Graphics 29 (4), SIGGRAPH 2010.
- **Efficient Implementation of Dual Scattering Model in RenderMan** | 2010
Iman Sadeghi, Rasmus Tamstorf
Walt Disney Animation Studios Technical Reports.
- **Coherent Path Tracing** | 2009
Iman Sadeghi, Bin Chen, Henrik Wann Jensen
Journal of Graphics, GPU, & Game Tools 14 (2).
- **Photorealistic Rendering of Human Hair Fibers** | 2008
Iman Sadeghi
M.Sc. Thesis, Jacobs School of Engineering, University of California San Diego.

- **Optimal Point Removal in Closed-2PM Labeling** | 2008
Farshad Rostamabadi, Iman Sadeghi, Mohammad Ghodsi, Ramtin Khosravi
Information Processing Letters, Elsevier, 105 (3).

Invited Presentations, Panels, and Posters

- **Copyright Chaos: The Litigation Labyrinth of AI Training** | 2025
Panel Moderator, Panelist & Presenter at the 69th Annual Intellectual Property, Information & Privacy Law Conference
University of Illinois Chicago School of Law
- **Beyond Access: AI and the Illusion of Privacy in the Age of LLMs** | 2025
Panelist & Presenter at the Information & Privacy Law Program
University of Illinois Chicago School of Law
- **Into the Unknown: Navigating the Complexities of Litigating Emergent Abilities of AI** | 2024
Panel Moderator, Panelist & Presenter at the Intellectual Property, Information & Privacy Law Conference
University of Illinois Chicago School of Law
- **In Pursuit of Pixels: Journey Through Computer Science & Computer Graphics** | 2017
Invited Presentation at the Computer Science & Engineering Lecture Series
University of California San Diego
- **Appearance Modeling for Digital Humans – In Pursuit of Pixels** | 2017
Invited Presentation at the Graduate Course CSCI 621: Digital Geometry Processing
University of Southern California
- **Hair Rendering from Theory to Practice** | 2010
Invited Presentation at the Graduate Course CSE 272: Advanced Appearance Modeling
University of California San Diego
- **A Physically Based Anisotropic Iridescence Model for Rendering Morpho Butterflies** | 2008
Poster Presenter at the UCSD Jacobs School of Engineering Research Expo
University of California San Diego
- **Photorealistic Rendering of Morpho Butterflies** | 2008
Invited Presentation at the Iridescence: More than Meets the Eye Conference
Arizona State University
- **State of the Art in Hair Rendering** | 2008
Invited Presentation at the Look Development Department
Walt Disney Animation Studios

Movie Credits

- **Tangled** | 2010
Look Development, Hair Rendering Development
Walt Disney Animation Studios

Awards & Honors

- **Erdős-Bacon Number 6** | 2010
Erdős Number 4 and Bacon Number 2

- **Walt Disney Animation Studios Fellowship** | 2009
Awarded for hair rendering research on the Disney movie Tangled | Burbank, CA
- **Best Social Networking App** | 2009
Awarded during the Qualcomm Innovation Challenge | La Jolla, CA
- **Featured on Magazine Front Cover** | 2009
Optics and Photonics News Magazine
- **Chancellor's Interdisciplinary Collaboratories Fellowship** | 2008
Awarded from CISA3, the Center of Interdisciplinary Science for Art, Architecture & Archaeology | La Jolla, CA
- **Grand Prize Award** | 2007
Winner of the University of California San Diego's Rendering Competition 2007 | La Jolla, CA
- **Best Graphics Design** | 2007
Winner of The Open Protein Structure Network logo design contest
- **CalRA Fellowship** | 2006–2007
Awarded from Jacobs School of Engineering, UC San Diego | La Jolla, CA
- **Ranked 1st in Cumulative GPA** | 2002–2006
Class of 2002, Computer Engineering Department, Sharif University of Technology | Tehran, Iran
- **Silver Medal Award** | 2002
National Olympiad of Informatics | Iran
- **Admitted to The National Organization for Development of Exceptional Talents** | 1995 & 1998
Less than the top 1% of students nationwide are admitted to the program | Iran

Invited Judge, Reviewer, and Moderator

- **Reviewer** | Eurographics Conference 2026
- **Reviewer** | IEEE Transactions on Visualization & Computer Graphics 2025
- **Moderator** | Intellectual Property, Information & Privacy Law Conference 2025
- **Distinguished Judge** | University of California San Diego Research Expo 2025
- **Moderator** | Intellectual Property, Information & Privacy Law Conference 2024
- **Judge** | University of California San Diego CSE Summer Internship Symposium 2024
- **Distinguished Judge** | University of California San Diego Research Expo 2024
- **Reviewer** | Eurographics Conference 2024
- **Reviewer** | ACM SIGGRAPH Conference 2022
- **VIP Judge** | University of California San Diego Research Expo 2017
- **Reviewer** | ACM SIGGRAPH Asia Conference 2011
- **Reviewer** | Computers & Graphics Journal, Elsevier 2010
- **Reviewer** | ACM SIGGRAPH Asia Conference 2010
- **Judge** | University of California San Diego Research Expo 2013
- **Judge** | University of California San Diego Rendering Competition 2010
- **Reviewer** | ACM Transactions on Graphics Conference 2009
- **Judge** | University of California San Diego Rendering Competition 2008

Teaching Experience

- **University of California, San Diego** | La Jolla, CA | 2007–2011
 - **Teaching Assistant** | CSE 20: Discrete Mathematics | Spring 2011
 - **Senior Teaching Assistant** | CSE 21: Mathematics for Algorithms and Systems | Winter 2011
 - **Senior Teaching Assistant** | CSE 8A: Introduction to Computer Science: Java | Fall 2010
 - **Teaching Assistant** | CSE 167: Computer Graphics | Fall 2010
 - **Teaching Assistant** | CSE 20: Discrete Mathematics | Spring 2010
 - **Senior Teaching Assistant** | CSE 101: Design & Analysis of Algorithms | Winter 2010
 - **Senior Teaching Assistant** | CSE 100: Advanced Data Structures | Fall 2009
 - **Senior Teaching Assistant** | CSE 167: Computer Graphics | Fall 2007
- **National Ministry of Education** | Tehran, Iran | 2005
 - **Teaching Discrete Mathematics** for the Olympiad of Informatics to high school students.
- **Young Scholars Club** | Tehran, Iran | 2004
 - **Teaching Combinatorics and Informatics** at Farzanegan High School
- **Sharif University of Technology** | Tehran, Iran | 2003–2006
 - **Senior Teaching Assistant** | CE254: Design & Analysis of Algorithms | Fall 2006
 - **Senior Teaching Assistant** | CE364: Programming Languages | Fall 2005
 - **Teaching Assistant** | CE443: Computer Networks | Spring 2005
 - **Teaching Assistant** | CE417: Artificial Intelligence | Fall 2004
 - **Senior Teaching Assistant** | CE115: Discrete Mathematics | Fall 2003

Technical Skills

- **Software & Technology**
Artificial Intelligence, System Architecture, Distributed Systems, Parallel Processing, Operating Systems, Databases, Cryptography, User Privacy, Search Engine Optimization, Big Data, Machine Learning, and Artificial Intelligence (AI).
- **Computer Graphics**
Rendering, Virtual Reality, Augmented Reality, Ray Tracing, Path Tracing, Photon Mapping, Image Processing, Visualization, Rasterization, Geometry Processing, 3D Modeling, Appearance Modeling, and 3D Animation.
- **Algorithms & Complexity**
Data Structures, Dynamic Programming, Divide & Conquer, Approximation Algorithms, Computational Geometry, Randomized Algorithms, Time & Space Complexity, Online Algorithms, Greedy Algorithms, and Game Theory.
- **Software Programming Languages**
C/C++, Java, C#, OpenGL, RSL, Pascal, PHP, HTML, CSS, JavaScript, XML, SQL, and LaTeX.
- **Operating Systems**
Windows, Linux, Mac OS, and Android.

Technical Coursework

- **Graduate Level** | University of California, San Diego | 2006–2011

Adv. Appearance Modeling	A+	3D Geometry Processing	A+	Algorithm Design & Analysis	A+
Rendering Algorithms	A	Virtual Reality Principles	A	Software Engineering	A
Computer Animation	A+	Cognitive Science Seminar	A	Operating Systems	A

- **Undergraduate Level** | Sharif University of Technology | 2002–2006

Advanced Algorithms	A+	Artificial Intelligence	A+	C++ Programming	A+
Computer Graphics	A+	Systems Analysis	A+	Java Programming	A+
Engineering Graphics	A+	Theory of Computation	A	Programming Languages	A+
Software Engineering	A+	Adv. Information Retrieval	A	Discrete Mathematics	A+
Compiler Design	A+	Project Management	A	Probability & Statistics	A
Computer Networks	A+	Logic Circuits	A+	Electronic Circuits	A
Computer Networks Lab.	A+	Logic Circuits Lab.	A+	Electronic Circuits Lab.	A+
Computer Architecture Lab.	A+	Digital Systems Design Lab.	A+	Computer Workshop	A+

Professional Associations

- **ACM**: Association for Computing Machinery
- **ACM SIGAI**: ACM's Special Interest Group on Artificial Intelligence
- **ACM SIGACT**: ACM's Special Interest Group on Algorithms & Computation Theory
- **ACM SIGGRAPH**: ACM's Special Interest Group on Computer Graphics and Interactive Techniques
- **ACM TOG**: ACM's Transactions On Graphics
- **IEEE**: Institute of Electrical and Electronics Engineers
- **IEEE Computer Society**
- **UCSD**: University of California San Diego
- **UCSD Alumni Association**
- **UCSD ACM Programming Team**: Southern California Regional Contest

Miscellaneous Associated Articles

Included for background disclosure purposes only.

- ***Avatar digitization from a single image for real-time rendering***
ACM SIGGRAPH Asia 2017.
- ***Pinscreen: creating performance-driven avatars in seconds***
ACM SIGGRAPH 2017 Real Time Live!

Passions, Perspectives, and Pursuits

- **Adventure**: Traveling, Skydiving, Scuba Diving, Rock Climbing, Paragliding, and Skiing
- **Visual Arts**: Photography, Drawing, Painting, Caricaturing, Animation, and Sculpting
- **Philosophy**: Consciousness, Metaphysics, Epistemology, Ethics, and Faith