Education
- Ph.D., University of North Carolina at Chapel Hill, 2001.
- M.Sc (Engg.), Indian Institute of Science, 1995.
- B.E. (Computer Science and Engg.), Thiagarajar College of Engineering, 1992.

Work Experience
- Professor, July 2013-Present, Department of Computer Science, UCI.
- Co-Founder, Technical Advisor, Board Member, Summit Technology Laboratories. 2015-Present
- Associate Dean for Undergraduate Student Affairs, July 2021-Sept 2024, Donald Bren School of Information and Computer Sciences.
- Associate Dean for Student Affairs, July 2016-June 2021, Donald Bren School of Information and Computer Sciences.
- Associate Professor, July 2007- June 2013, Department of Computer Science, UCI.
- Assistant Professor, July 2001- June 2007, Department of Computer Science, UCI.
- Research/Teaching Assistant, 1995-2001, Dept. of Computer Science, UNC.
- Summer Intern, AT&T Research Labs, Summer 1998 and Summer 1999.
- Senior Software Engineer, Tata Elxsi, Bangalore India, Jan-July 1995.

Journal Publications
J40. Y. Ding, Y. Huang, Pan Gao, Andy Thai, Atchuth Chilaparasetti, M. Gopi, Xiangmin Xu, Chen Li: Brain image data processing using collaborative data workflows on Texera. Frontiers in Neural Circuits. Jul 9; Volume 18-2024. https://doi.org/10.3389/fncir.2024.1398884

J39. Andy Thai, Irmina Gradus-Pizlo, Zygmunt Pizlo, Hakan Sahin, M. Gopi: Automatic segmentation and implicit surface representation of dynamic cardiac data. Visual Computer 40(7) 4869-4883, 2024.

J38. Mahdi Abbaspour Tehrani, Muhammad Twaha Ibrahim, Aditi Majumder, M. Gopi: 3D Gamut Morphing for Non-Rectangular Multi-Projector Displays. IEEE Transactions on Visualization and Computer Graphics, 30(8): 4724-4738, 2024.

J37. Muhammad Twaha Ibrahim, M. Gopi, Aditi Majumder: Real-Time Seamless Multi-Projector Displays on Deformable Surfaces. IEEE Transactions on Visualization and Computer Graphics, 30(5): 2527-2537, 2024.

J36. Muhammad Twaha Ibrahim, Aditi Majumder, M. Gopi: Dynamic Projection Mapping on Deformable Stretchable Materials Using Boundary Tracking. Computers and Graphics, 103, 61-74, 2022.

J35. Mahdi Abbaspour Tehrani, M. Gopi, Aditi Majumder: Automated Geometric Registration for Multi-Projector Displays on Arbitrary 3D Shapes using Uncalibrated Devices. IEEE Transactions on Visualization and Computer Graphics, 27(4), 2265-2279, 2021.

J34. Jia Chen, M. Gopi: Geometry Aware Tori Decomposition. Computer Graphics Forum, 38(2), 331-341, 2019.

J33. Yuqi Li, Aditi Majumder, M. Gopi, Chong Wang, Jieyu Zhao: Practical Radiometric Compensation for Projection Display on Textured Surfaces using a Multidimensional Model. Computer Graphics Forum, 37(2), 365-375, 2018.

J32. Yuqi Li, Aditi Majumder, Hao Zhang, M. Gopi: Optimized Multi-Spectral Filter Array Based Imaging of Natural Scenes
J31. Nitin Agarwal, Xiangmin Xu, M. Gopi
Geometric Processing of Conventionally Produced Mouse Brain Slice Images
Journal of Neuroscience Methods, 306:45-56, Aug 2018.

J30. Na Lv, Zifei Jiang, Yan Huang, Xiangxu Meng, M. Gopi, and Jingliang Peng
Generic Content-Based Retrieval of Marker-Based Motion Capture Data
IEEE Transactions on Visualization and Computer Graphics, 24(6), 1969-1982, 2018.

J29. Jia Chen, Shun Jiang, Zachary Destefano, Sungeui Yoon, M. Gopi
Optimally Redundant, Seek-Time Minimizing Data Layout for Interactive Rendering
The Visual Computer, 33(2), 139-149, Feb 2017.

J28. Yuqi Li, Aditi Majumder, Dongming Lu, M. Gopi
Content-Independent Multi-Spectral Display Using Superimposed Projections
Computer Graphics Forum, 34(2), 2015.

J27. Duy-Quoc Lai, Shun Jiang, Aditi Majumder, M. Gopi
A Distributed Memory Hierarchy and Data Management for Interactive Scene Navigation and
Modification on Tiled Display Walls
IEEE Transactions on Visualization and Computer Graphics, 21(6), 714-729, 2015.

J26. Jiang Shan, Behzad Sajadi, Alexander Ihler, M. Gopi
Optimizing Redundant-Data Clustering for Interactive Walkthrough Applications
The Visual Computer 30(6-8): 637-647 (2014)

J25. Shanaz Mistry, U.N. Niranjan, M. Gopi
Puzzhull: Cavity and Protrusion Hierarchy to Fit Conformal Polygons
Computer Aided Design, Nov 2013

J24. Yongwei Miao, Jonas Bosch, Renato Pajarola, M. Gopi
Feature sensitive re-sampling of point set surfaces with Gaussian spheres
Science China, 55(9), pp 2075-2089, Aug 2012.

J23. Behzad Sajadi, M. Gopi, Aditi Majumder
Edge-Guided Resolution Enhancement in Projectors via Optical Pixel Sharing
ACM Transactions on Graphics, Aug 2012

J22. Koel Das, Monica Siegenthaler, Aditi Majumder, Hans Keirstead, M. Gopi
Automated Cell Classification and Visualization for Analyzing Remyelination Therapy
The Visual Computer, 2011

J21. M. Liu, A. Chakraborty, D. Singh, R. K. Yadav, M. Gopi, G. V. Reddy, A. Roy-Chowdhury
Adaptive Cell Segmentation and Tracking for Volumetric Confocal Microscopy Images of A
Developing Plant Meristem
Molecular Plant Journal, 2011

J20. S. K. Suter, J. A. I. Guitian, F. Marton, M. Agus, A. Elsener, C.P.E. Zollikofer, M. Gopi, E. Gobbetti,
R. Pajarola
Interactive Multiscale Tensor Reconstruction for Multiresolution Volume Visualization
IEEE Transactions on Visualization and Computer Graphics, 2011

J19. Jingliang Peng, Yan Huang, C.-C. Jay Kuo, Ilya Eckstein, M. Gopi
Feature Oriented Progressive Lossless Mesh Coding
Computer Graphics Forum, 2010

J18. Behzad Sajadi, Maxim Lazarov, M. Gopi, Aditi Majumder
Color Seamlessness in Multi-Projector Displays using Constrained Gamut Morphing
IEEE Transactions on Visualization and Computer Graphics, 15(9), pp 1317-1326, 2009.
| J17 | Pablo Diaz-Gutierrez, David Eppstein, M. Gopi |
|     | Curvature Aware Fundamental Cycles |
|     | Computer Graphics Forum, 28(7), pp 2015-2024, 2009. |
| J16 | Pablo Diaz-Gutierrez, Jonas Bosch, Renato Pajarola, M. Gopi |
|     | Streaming Surface Sampling Using Gaussian ε-nets. |
|     | The Visual Computer, 25(5-7), pp 411-422, 2009. |
| J15 | Yan Huang, Jingliang Peng, C.-C Jay Kuo, M. Gopi |
|     | A Generic Scheme for Progressive Point Cloud Coding |
|     | IEEE Trans. on Visualization and Computer Graphics, pp 440-453, 14(2), Mar/Apr 2008. |
| J14 | Don V. Black, M. Gopi, F. Kuester, F. Wessel, R. Pajarola |
|     | Visualizing Flat Spacetime: Viewing Optical versus Special Relativistic Effects |
|     | American Journal of Physics, 75(6), pp 540 - 545, June 2007. |
| J13 | Pablo Diaz-Gutierrez, Anusheel Bhushan, M. Gopi, Renato Pajarola |
|     | Single Strips for Fast Interactive Rendering |
|     | The Visual Computer, 22(6), pp 372 - 386, June 2006. |
| J12 | Pablo Diaz-Gutierrez, M. Gopi |
|     | Quadrilateral and Tetrahedral Mesh Stripification Using 2-Factor Partitioning of the Dual Graph |
|     | The Visual Computer, 21(8 -10), pp 689 - 697, Sep 2005. |
| J11 | Pablo Diaz-Gutierrez, M. Gopi, Renato Pajarola |
|     | Hierarchyless Simplification, Stripification and Compression of Triangulated Two-Manifolds |
|     | Computer Graphics Forum, 24(3), pp 457-467, Sep 2005. |
| J10 | Aditi Majumder, M. Gopi |
|     | Modeling Color Properties of Tiled Displays |
|     | Computer Graphics Forum, 24(2), pp 149-163, 2005. |
| J9  | M. Gopi, David Eppstein |
|     | Single-Strip Triangulation of Manifolds with Arbitrary Topology |
|     | Computer Graphics Forum, 23(3), pp 371-379, 2004. |
| J8  | S. Krishnan, D. Manocha, M. Gopi, T. Culver, J. Keyser |
|     | BOOLE: A Boundary Evaluation System for Boolean Combinations of Sculptured Solids |
|     | Int. Journal of Comp. Geometry and Applications, 11(1), 105-144, 2001. |
| J7  | M. Gopi, S. Krishnan, C. T. Silva |
|     | Surface Reconstruction based on Lower Dimensional Localized Delaunay Triangulation |
|     | Computer Graphics Forum, 19(3), pp C467-C478, 2000. |
| J6  | M. Gopi, D. Manocha |
|     | Simplifying Spline Models |
|     | Comp. Geometry, Theory and Applications, 14, (1-3), 67-90, Nov. 1999. |
| J5  | S. Krishnan, M. Gopi, M. Lin, D. Manocha, A. Pattekar |
|     | Rapid Accurate Contact Determination between Spline Models using ShellTrees |
|     | Computer Graphics Forum, 17(3), pp C315-C326, 1998. |
| J4  | S.Krishnan, M.Gopi, D.Manocha, M.Mine |
|     | Interactive Boundary Computation of Boolean Combinations of Sculptured Solids |
|     | Computer Graphics Forum, 16(3), pp C67-C78,1997. |
| J3  | M.Gopi, S.Manohar |
|     | A Unified Architecture for the computation of B-Spline Curves and Surfaces |
|     | IEEE Trans. on Parallel and Distributed Systems, 8(12), 1275-1287, 1997. |
| J2  | M.Gopi, S.Manohar |
|     | Parallel architecture for the computation of Uniform Rational B-Spline Patches |
Journal of Parallel and Distributed Computing, Nov. 1995.

J1. M. Gopi, S. Manohar
A VLSI architecture for the computation of Uniform B-Spline curves
Microprocessing and Microprogramming, EUROMICRO Journal, Nov. 1994.

Conference/Workshop Publications

C62. Muhammad Twaha Ibrahim, M. Gopi, Aditi Majumder:
Self-Calibrating Dynamic Projection Mapping System for Dynamic, Deformable Surfaces with Jitter Correction and Occlusion Handling.
International Symposium on Mixed and Augmented Reality (ISMAR) 2023: 293-302

C61. Muhammad Twaha Ibrahim, M. Gopi, Raj Vyas, Lohrasb R. Sayadi, Aditi Majumder:
Projector-Camera Calibration on Dynamic, Deformable Surfaces.
Virtual Reality Workshops 2023: 903-904

C60. Muhammad Twaha Ibrahim, M. Gopi, Aditi Majumder:
Projector-Camera Calibration on Dynamic, Deformable Surfaces.
Virtual Reality Workshops 2023: 905-906

C59. Isabela Figueira, Muhammad Twaha Ibrahim, Aditi Majumder, M. Gopi
Augmented Reality Patient Specific Registration for Medical Visualization
ACM Virtual Reality Software and Technology 2022. 43:1-43:2. (Posters and Demos)

C58. Nitin Agarwal, M. Gopi
GAMesh: Guided and Augmented Meshing for Deep Point Networks
3D Vision Conference, 2020. 702-711.

C57. Muhammad Twaha Ibrahim, M. Gopi, Aditi Majumder
Dynamic Projection Mapping of Deformable Stretchable Materials
ACM Virtual Reality Software and Technology, 2020.

C56. Nitin Agarwal, Sung-eui Yoon, M. Gopi
Learning Embedding of 3D Models with Quadric Loss.
British Machine Vision Conference (BMVC) 2019.

C55. Jia Chen, M. Gopi
Geometry Aware Tori Decomposition.
Eurographics 2019. (Same as J34.)

C54. Yuqi Li, Aditi Majumder, M. Gopi, Chong Wang, Jieyu Zhao
Practical Radiometric Compensation for Projection Display on Textured Surfaces using a Multidimensional Model.
Eurographics 2018. (Same as J33.)

C53. Jia Chen, James Jester, M. Gopi
Fast Computation of Tunnels in Corneal Collagen Structure.
Computer Graphics International Conference (CGI), 57-65, 2018.

C52. Yuqi Li, Hao Zhang, M. Gopi, Aditi Majumder
Computational Spectral Display and Capture.
IEEE Applied Imagery Pattern Recognition (AIPR), 2016.

C51. Mahdi Abbaspour Tehrani, M. Gopi, Aditi Majumder
Auto-calibration of multi-projector systems on arbitrary shapes.
IEEE Applied Imagery Pattern Recognition (AIPR), 2016.

C50. Jia Chen, James Jester, M. Gopi
Robust segmentation of corneal fibers from noisy images.
Indian Conference on Computer Vision, Graphics & Image Processing (ICVGIP), 2016.

C49. **Nitin Agarwal, Xiangmin Xu, M. Gopi**
Robust Registration of Mouse Brain Slice with Severe Histological Artifacts
Indian Conference on Computer Vision, Graphics & Image Processing (ICVGIP), 2016.

C48. **Mahdi Abbaspour Tehrani, Aditi Majumder, M. Gopi**
Correcting perceived perspective distortions using object specific planar transformations
IEEE International Conference on Computational Photography (ICCP), May 2016, Chicago.

C47. **Nitin Agarwal, Xiangmin Xu, M. Gopi**
Automatic Detection of Histological Artifacts in Mouse Brain Slice Images
MICCAI Workshop on Medical Computer Vision (MVC) 2016, Athens, Greece.

C46. **Jia Chen, Shan Jiang, Zachary Destefano, Sungeui Yoon, M. Gopi**
Performance Driven Redundancy Optimization of Data Layouts for Walkthrough Applications
Computer Graphics International (CGI) 2015, Strasbourg, France.

C45. **Yuqi Li, Aditi Majumder, Dongming Lu, M. Gopi**
Content-Independent Multi-Spectral Display Using Superimposed Projections
Eurographics 2015. (Same as J28)

C44. **K. Cutler, Z. DeStefano, S. M. Zarandi, T. D. O'Sullivan, A. E. Cerussi, M. Gopi, A. Majumder, S-H. Lee, B. J. Tromberg**
Real-time Mapping and Tracking of Optical Properties in Deep Tissue
SPIE Photonics, Optical Tomography and Spectroscopy of Tissue XI, Feb 2015, Paper 9319-59.

C43. **Uddipan Mukherjee, M. Gopi**
Finding Feature Similarities Between Geometric Trees
Pacific Graphics, Oct 2014

C42. **Jiang Shan, Behzad Sajadi, Alexander Ihler, M. Gopi**
Optimizing Redundant-Data Clustering for Interactive Walkthrough Applications
Computer Graphics International Conference, June 2014 (Same as J26)

C41. **Shanaz Mistry, U.N. Niranjan, M. Gopi**
Puzzhull: Cavity and Protrusion Hierarchy to Fit Conformal Polygons
SIAM Conference on Geometric Design/Geometric and Physical Modeling, Nov 2013 (Same as J25)

C40. **Shan Jiang, Behzad Sajadi, M. Gopi**
Single-Seek Data Layout for Walkthrough Applications
SIBGRAPI Conference on Graphics, Patterns, and Images, Aug 2013.

C39. **Behzad Sajadi, Duy-Quoc Lai, Alexander Ihler, M. Gopi, Aditi Majumder**
Image Enhancement in Projectors Via Optical Pixel Shift and Overlay
International Conference on Computational Photography (ICCP), April, 2013.

C38. **Uddipan Mukherjee, M. Gopi**
Tweening Boundary Curves of Non-simple Immersions of a Disk
ICVGIP 2012. [Best Paper Award]

C37. **Sangwon Chae, Aditi Majumder, M. Gopi**
HD-GraphViz: Highly Distributed Graph Visualization on Tiled Displays
ICVGIP 2012.

C36. **Behzad Sajadi, M. Gopi, Aditi Majumder**
Edge-Guided Resolution Enhancement in Projectors via Optical Pixel Sharing
ACM Siggraph 2012. [Same as J23]
Ishwar Kulkarni, Shanaz Y. Mistry, Brian Cummings, M. Gopi
A Visual Navigation System for Querying Neural Stem Cell Imaging Data
IEEE Visual Analytics Science and Technology (VAST), 2011

K. Mkrtchyan, D. Singh, M. Liu, V. Reddy, A. Roy-Chowdhury, M. Gopi
Efficient cell segmentation and tracking of developing plant meristem
IEEE International Conference on Image Processing 2011.

Uddipan Mukherjee, M. Gopi, Jarek Rossignac
Immersion and Embedding of Self-Crossing Loops
International Symposium on Sketch-Based Interfaces and Modeling, 2011

Ishwar Kulkarni, Uddipan Mukherjee, Chris Sontag, Brian Cummings, M. Gopi
Robust Segmentation and Tracking of Generic Shapes of Neuro-Stem Cells
IEEE Conference on Healthcare Informatics, Imaging, and Systems Biology (HISB), 2011

S. K. Suter, J. A. I. Guitian, F. Marton, M. Agus, A. Elsener, C.P.E. Zollikofe, M. Gopi, E. Gobbetti, R. Pajarola
Interactive Multiscale Tensor Reconstruction for Multiresolution Volume Visualization
IEEE Visualization 2011 [Same as J20]

Behzad Sajadi, Shan Jiang, Jae-Pil Heo, Sung-Eui Yoon, M. Gopi.
Data Management for SSDs for Large-Scale Interactive Graphics Applications
ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D), 2011

Koel Das, Monica Siegenthaler, Aditi Majumder, Hans Keirstead, M. Gopi
Automated Analysis of Remyelination Therapy for Spinal Cord Injury
ICVGIP 2010. [Oral Presentation - Top 10%, Invited for The Visual Computer Journal]

Jingliang Peng, Yan Huang, C.-C. Jay Kuo, Ilya Eckstein, M. Gopi
Feature Oriented Progressive Lossless Mesh Coding
Pacific Graphics 2010. [Same as J19] [17%]

Behzad Sajadi, Maxim Lazarov, Aditi Majumder, M. Gopi
Color Seamlessness in Multi-Projector Displays using Constrained Gamut Morphing
IEEE Visualization 2009. [Same as J18] [27%]

Pablo Diaz-Gutierrez, David Eppstein, M. Gopi
Curvature Aware Fundamental Cycles
Pacific Graphics 2009. [Same as J17]. [18%]

Yongwei Miao, Pablo Diaz-Gutierrez, Renato Pajarola, M. Gopi, Jieqing Feng
Shape Isophotic Error Metric Controllable Re-Sampling for Point-sampled Surfaces
IEEE Intl. Conf. on Shape Modeling and Applications (SMI), June, 2009. pp.28-35. [26%]

Pablo Diaz-Gutierrez, Jonas Bosch, Renato Pajarola, M. Gopi
Streaming Surface Sampling Using Gaussian ε-nets.
Computer Graphics International, 2009. [Same as J16] [29%]

Behzad Sajadi, Yan Huang, Pablo Diaz-Gutierrez, Sung-Eui Yoon, M. Gopi
A Novel Page-Based Data Structure for Interactive Walkthroughs
ACM Symposium on Interactive 3D Graphics and Games, Feb 2009.

Pablo Diaz-Gutierrez, David Eppstein, M. Gopi
Single Triangle Strip and Loop on Manifolds with Boundaries
SIGGRAPH, [33%] October 2006.

Masaki Kitago, M. Gopi
Efficient and Prioritized Point Subsampling for CSRBF Compression
EUROGRAPHICS Symposium on Point Based Graphics, July 2006.

Yan Huang, Jingliang Peng, C.-C Jay Kuo, M. Gopi
Octree-Based Progressive Geometry Coding of Point Clouds
EUROGRAPHICS Symposium on Point Based Graphics, July 2006.

C19. **Anusheel Bhushan, Oliver Le, Pablo Diaz-Gutierrez, M. Gopi**
Capturing and View-Dependent Rendering of Billboard Models
International Symposium on Visual Computing, 2005.

C18. **Koel Das, Pablo Diaz-Gutierrez, M. Gopi**
Sketching Free-form Surfaces Using Network of Curves
EUROGRAPHICS Workshop on Sketch Based Interfaces and Modeling, 2005.

C17. **Pablo Diaz-Gutierrez, M. Gopi**
Quadrilateral and Tetrahedral Mesh Stripification Using 2-Factor Partitioning of the Dual Graph
Pacific Graphics 2005. [13.9%] [Same as J12]

C16. **Pablo Diaz-Gutierrez, M. Gopi, Renato Pajarola**
Hierarchyless Simplification, Stripification and Compression of Triangulated Two-Manifolds
EUROGRAPHICS 2005 [15%], 2nd Best Paper Award. [Same as J11]

C15. **Pablo Diaz-Gutierrez, Anusheel Bhushan, M. Gopi, Renato Pajarola**
Constrained Strip Generation and Management for Efficient Interactive 3D Rendering
Computer Graphics Int. Conference, 2005. [32%, Top 5% invited for journal].

C14. **Pablo Diaz-Gutierrez, Anusheel Bhushan, Renato Pajarola, M. Gopi**
Weighted Strip Generation for Accelerated Rendering
ACM SIGGRAPH Sym. on Interactive 3D Graphics and Games 2005. [Poster].

C13. **Gautam Chaudhary, Koel Das, M. Gopi**
Curvature Minimizing Depth Interpolation for Intuitive and Interactive Space Curve Sketching
Computer Graphics International Conference, 2005. [Poster]

C12. **M. Gopi**
Controllable Single-Strip Generation for Triangulated Surfaces
Pacific Graphics, pp 61-69, 2004. [25%]

C11. **M. Gopi, David Eppstein**
Single-Strip Triangulation of Manifolds with Arbitrary Topology
EUROGRAPHICS 2004 [18%], 2nd Best Paper Award. [Same as J9]

C10. **O. Sen, C. Chemudugunta, M. Gopi**
Silhouette-Opaque Transparency Rendering
IASTED Conf. on Computer Graphics and Imaging, 2003, pp 153-158.

C9. **M. Gopi, S. Krishnan**
Fast and Efficient Projection Based Approach for Surface Reconstruction
Brazilian Sym. on Computer Graphics and Image Processing, SIBGRAPI 2002.

C8. **Aditi Majumder, M. Gopi**
Hardware Accelerated Real Time Charcoal Rendering
SIGGRAPH/EUROGRAPHICS Non-Photorealistic Animation and Rendering, 2002, pp 59-66.

C7. **M. Gopi, S. Krishnan, C. T. Silva**
Surface Reconstruction based on Lower Dimensional Localized Delaunay Triangulation
EUROGRAPHICS 2000 [37%], [Same as J7]

C6. **Aditi Majumder, M. Gopi, B. Seales, H. Fuchs**
Geometric Stitching for Real-Time Panoramic Image Generation Using Texture Maps
ACM Multimedia 1999, pp 169-178. [19%]

C5. **L. Nyland, D. McAllister, V. Popescu, C. McCue, A. Lastra, P. Rademacher, M. Oliveira, G. Bishop, M. Gopi, M. Cutts, H. Fuchs**
The Impact of Dense Range Data on Computer Graphics
Proc. of Multi-View Modeling and Analysis Workshop (Part of CVPR), 1999.

C4. S. Krishnan, M. Gopi, M. Lin, D. Manocha, A. Pattekar
Rapid Accurate Contact Determination between Spline Models using ShellTrees
EUROGRAPHICS 1998. [Same as J5]

C3. S. Krishnan, M. Gopi, D. Manocha, M. Mine
Interactive Boundary Computation of Boolean Combinations of Sculptured Solids
EUROGRAPHICS 1997 [33%]. [Same as J4]

C2. M. Gopi, D. Manocha
A Unified Approach for Simplifying Polygonal and Spline Models
IEEE Visualization 1998, pp 271-278.

C1. M. Gopi, S. Manohar
VLSI architecture for the computation of NURBS patches
Proc. of International Conf. on VLSI Design, New Delhi, India, Jan 1995.

Books and Edited Conference Proceedings
B4. Aditi Majumder and M. Gopi
Introduction to Visual Computing: Core Concepts in Computer Vision, Graphics and Image Processing.
CRC Press, Published Feb 9, 2018, ISBN 978-1-4822-4491-5.

B3. M. Gopi, Sung-Eui Yoon, Marc Olano, Miguel Otaduy
Proceedings of ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games, 2013
ACM Press 2013, ISBN 978-1-4503-1956-0.

B2. Michael Garland, Rui Wang, M. Gopi, Sung-Eui Yoon
Proceedings of ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games, 2012
ACM Press 2012, ISBN: 978-1-4503-1194-6.

B1. G. Bebis, R. Boyle, B. Parvin, D. Koracin, P. Remagnino, A. V. Nefian, M. Gopi,
V. Pascucci, J. Zara, J. Molineros, H. Theisel, T. Malzbender:
Advances in Visual Computing, Second International Symposium. Lecture Notes in Computer Science 4291 (Part I) and 4292 (Part II).
Springer 2006, ISBN 3-540-48628-3.

Thesis/Dissertations and Other Publications
D2. M. Gopi
Theory and Practice of Sampling and Reconstruction of Manifolds with Boundaries
Ph.D. Dissertation, Department of Computer Science, University of North Carolina at Chapel Hill, 2001.

D1. M. Gopi
Special Purpose Architectures for B-Splines.
M.S. Thesis, Supercomputer Education and Research Center, Indian Institute of Science, Bangalore, 1994.

T2. Pablo Diaz-Gutierrez, M. Gopi
Gauss Sphere Sampling based Surface Approximation
UCI-ICS Technical Report 07-08, 2007.

T1. M. Gopi
On Sampling and Reconstructing Surfaces with Boundaries
Canadian Conference on Computational Geometry, 2002.

Video Proceedings
V1. David Eppstein, M. Gopi,
Single-Strip Triangulation of Manifolds with Arbitrary Topology
ACM Symposium of Computational Geometry, 2004. Video Proceedings.
Patents
P2. Aditi Majumder, Behzad Sajadi, Gopi Meenakshisundaram, A Projector with Enhanced Resolution Via Optical Pixel Sharing, US Patent #9183771 B2, Oct 11, 2015 (Applied: March 08, 2012)
P1. Aditi Majumder, Gopi Meenakshisundaram, Behzad Sajadi, Color seamlessness across tiled multi-projector displays, US Patent # 9052584 B2, Jun 9, 2015. (Applied: Aug 28, 2009)

Awards
A8. Senior Member, IEEE. Dec 2014.
A7. Best Paper Award, ICVGIP, Mumbai, India, 2012.
A6. Service Award, Association for Computing Machinery, 2012.
A5. Second Best Paper Award, EUROGRAPHICS, Dublin, Ireland, 2005.
A4. Second Best Paper Award, EUROGRAPHICS, Grenoble, France, 2004.
A3. Excellence in Teaching Award, Instructional Resource Center/DUE, UCI, 2004.
A2. Link Foundation Fellow (1999-2000).
A1. Gold Medalist, Overall academic Performance, Thiagarajar College of Engineering, 1992.

Funding Awards
- Faculty Preceptor, (Xu-PI) NIH-National Institute on Aging: 1T32AG081185-01A1, The UC Irvine Center for Neural Circuit Mapping training program in Alzheimer's disease research, 06/01/2024-05/31/2029. $1.4M.
- Co-Investigator, (Xu-PI), NIH: 5R01AG082127-02, Single-cell transcriptomic and epigenomic analysis of brain cell vulnerabilities to tauopathies in early AD impacted brain regions, 06/01/2023-02/29/2028, $10M.
- Co-Investigator, (Xu-PI) NIH: 5U01AG076791-03. Cell-type-specific neural circuit connectomes in the mouse models of aging and Alzheimer's disease,05/15/2022-04/30/2027, $14M
- Co-Investigator, (Tromberg - PI) R01CA195466, Quantitative multiphoton microscopy for non-invasive diagnosis of melanoma, 03/01/16-02/28/19, $163,625/yr direct cost.
- Co-PI, (Fowlkess - PI) NIH 1-R25-EB02236, Big Data Image Processing and Analysis (BigDIPA), 9/30/15 - 6/30/18: $486,000(T).
- PI, NSF "G&V: Compression Techniques for Direct Rendering", 2008-2012: $325,000.
- PI, NSF "SGER: Modeling Memory Access Patterns of Geometry Processing Algorithms", 2007-2008 : $63,129.
- Co-PI, NSF "RI: Integrating Illumination, Motion and Shape Models for Video Analysis", 2007-2010: $396,932.
- Faculty Desktop Computing Initiative, 2005: $3500.
- Research and Travel Grant, School of ICS, 2004-05: $1500.
- Undergraduate Research Orientation Program, UCI, 2004-05 (Chris Welch).
- Research and Travel Grant, ICS, 2003: $3000.
- Research and Travel Grant, ICS, 2002: $4500.

Invited Presentations
- Keynote Speaker, International Symposium on Visual Computing, 2014
- Institute for Informatics, University of Zurich, 2010
- Department of Computer Science, UC-Davis, Sept. 2006.
- Department of Computer Science, UNC, Chapel Hill, June 2006.
- Department of Computer Science, SUNY, Stony Brook, June 2006.
- Department of Computer Science, Univ. of Maryland, College Park, Feb 2006.
- CalIT2 Layer Leader Meeting, June 2002.
- Department of Information and Computer Science, UC, Irvine, 2001.
- Department of Computer Science, University of Arizona, Tucson, 2001.

Masters Research Advisor
- Mohanapriya Singaravelu - Articul8
- Atchuth Naveen Chilaparasetti - LMNT
- Ishwar Kulkarni - nVidia
- Shanaz Mistry - Siemens
- Shan Jiang, (PhD UCI), Altair.
Yimin Li
Don Black.
Anusheel Bhushan
Damanpreet Singh

Doctoral Graduate Advisor
- Nitin Agarwal [Candidacy: 08/25/2016] Graduated, June 2020, Common Sense Machines.
- Jia Chen [Candidacy: 08/26/2016] - Graduated Dec 2019, Google.
- U.N. Niranjan, CS UCI - Graduated Nov 2016, Microsoft.
- Uddipan Mukherjee, CS, UCI - Graduated Dec 2013 - Intel Corp.
- Shan Jiang, CS, UCI - Graduated Dec 2013 - Altair Engineering.
- Sangwon Chae, EECS, UCI - Graduated March 2013 - Samsung-Korea.
- Yan Huang, ICS, UCI. [6/05-01/09] - Graduated Jan 2009 - Associate Professor, Shandong University.
- Pablo Diaz-Gutierrez, ICS, UCI. (2003-08) - Graduated Dec 2008 - Entrepreneur (Appfluence).
- Behzad Sajadi, CS, UCI [9/07-9/12] - Graduated - D.E. Shaw, NYC
- Koel Das, EECS, UCI. [06/2004-06/2005] - Graduated - Assistant Professor, IISCER, Kolkata
- Gautam Chaudhary, EECS, UCI [06/2004 - 08/2006]
- Kartic Sankar Subr, ICS, UCI. [09/2002- 03/2004] - Assistant Professor, Heriot Watt University, UK.
- Ramaswamy Hariharan, ICS, UCI. [09/2002 09/2003] - Microsoft Corp.
- Chaitanya Chemudugunta, ICS, UCI. [09/2002 09/2003] - Blizzard Entertainment
- Osman Sen, ICS, UCI.[09/2002 06/2003]

Current Doctoral Students
- Andy Thai [Candidacy: 12/20/2023]

Undergraduate Research Advisor
- Brian Charles, CS, UCI
- Swati Bhonsle, CS, UCI
- Jonathan Chuong, CS, UCI
- Tana Ouitavo, CSE, UCI.
- Aamir Shah, CS, UCI.
- Danny Mardini, CS, UCI.
- Ryan Barber, CS, UCI.
- Devin Rosen, ICS, UCI.
- Oliver Le, ICS, UCI.
- Ian Byrd, ICS, UCI.
- Frank Chen, ICS, UCI.
- Benjamin Chen, ICS, UCI.
- Barry Hon, ICS, UCI.
- Chris Welch, ICS, UCI.

Ph.D. Committee Member
- Muhammad Twaha Ibrahim (Sept 2024) Summit Technology Laboratory.
- Yu Guo (August 2021)
- Zahra Montazeri (May 2021), Lecturer (Assistant Professor), University of Manchester.
- Nitish Nag (March 2020)
- Mengfan Tang (Apr 2017)
- Laleh Jalali, (Apr 2016) Adobe.
- Siripen Pongpaichet, (Sep 2016) Mahidol University.
- Vivek Singh, Associate Professor, Rutgers University
- Ben Compani [03/19/2012] - Google.
- Jian Liang, (Dept. of Mathematics) [6/4/2012]
- Pablo Diaz Gutierrez, Appfluence
- Kartic Subr, Heriot Watt University.
- Koel Das, EECS, UCI, Assistant Professor, IISCER, Kolkata.
- Haitao Du, EECS, UCI.
- Michael Shafae, ICS, UCI, Associate Prof., CSU, Fullerton.
- Xiaohong Bao, ICS, UCI.
- Miguel Sainz, EECS, UCI, nVidia, UK.

**Ph.D. Topic/Candidacy Committee Member**

- Barbara Martinez-Neda, [Candidacy: 2/27/2024]
- Yu-Chen Wang, [Candidacy: 2/7/2024]
- Amisha Priyadarshini, [Candidacy: 5/30/2024]
- Andy Thai [Candidacy: 12/20/2023]
- Guanyan Cai, [Candidacy: 12/2/2022]
- Zihan Yu, [Candidacy: 11/14/2022]
- Muhammad Twaha Ibrahim [Candidacy: 9/10/2020]
- Cheng Zhang [Candidacy: 11/14/2019]
- Yu Guo [Candidacy: 11/20/2018]
- Zahra Montazeri [Candidacy: 10/30/2018]
- Nitish Nag [Candidacy: 11/16/2017]
- Hyungik (Jordan) Oh [Candidacy: 06/02/2017]
- Te-Yu Chen [Candidacy: 09/06/2016]
- Yang Shi [EECS/ Candidacy: 11/03/2015]
- Mengfan Tang [Candidacy: 06/17/2015]
- Mahdi Abbaspour Tehrani [Candidacy: 06/09/2014]
- U.N. Niranj [Candidacy: 07/02/2013]
- Siripon Pongpaichet [Candidacy: 07/03/2013]
- Laeh Jalali [Candidacy: 06/26/2013]
- Ish Rishab [Topic defense: 10/17/2012]
- Vivek Singh [Candidacy: 07/22/2009; Topic Defense: 06/06/2011; Thesis Defense: 08/20/2012]
- Sangwon Chae [Candidacy: 09/14/2011; Thesis Defense: 03/12/2013]
- Behzad Sajadi
  - Don Black
  - Jian Liang, Mathematics, UCI [12/17/2009]
  - Jie Feng, Mathematics, UCI [12/09/2010]
  - So Yamaoka, ICS, UCI. [11/29/06]
  - Kartik Chandra Muktinutalapati, EECS, UCI. [11/29/05]
  - Yan Huang, ICS, UCI. [8/24/05]
  - Mark Phair, EECS, UCI. [6/16/05]
  - Mohammad Ali Ghodrat, ICS, UCI. [3/25/05]
  - Pablo Diaz-Gutierrez, ICS, UCI. [3/24/05]
  - Radha Guha, EECS, UCI. [1/28/05]
  - Kiran Ramineni, ICS, UCI. [12/9/04]
  - Gautam Chaudhary, EECS, UCI. [12/03/04]
  - Koel Das, EECS, UCI. [12/03/04]
  - Michael Shafae, ICS, UCI. [9/18/03]
  - Xiaohong Bao, ICS, UCI. [9/18/03]
  - Haitao Du, EECS, UCI. [9/03]
  - Andre Nacul, ICS, UCI. [5/26/04]
  - Miguel Sainz, EECS, UCI. [6/13/02]

**UC-Systemwide/UCI/School/Department Services**

- APG Workgroup on Student Mental Health (2022-present)
- Chair, ICS URM Retention Workgroup (2020-2021)
- University Committee on International Education, 10-yr Review Committee, National University of Singapore programs. 2019.
- University Committee on Faculty Welfare, 2010-2013.
- UC-Systemwide Workgroup on Researcher Conflict-of-Interest Program Development 2012
- International Student Workgroup 2020-2021
- Chair, Academic Program Review Board, 2015-2017
- Senate Council on Planning and Budget, UCI 2013-2014
- Chair, Senate Council on Faculty Welfare, Diversity and Academic Freedom, UCI 2011-2013
- Senate Council on Faculty Welfare, Diversity, and Academic Freedom, UCI, 2010-2013
- Chancellor’s Advisory Committee on Child Care, UCI, 2011-2013
Member, UCI Mental Health Initiative, 2012-2013
Senate Sub-committee on Undecided/Undeclared Students, UCI, 2008-10.

Associate Dean of Student Affairs, 2016-2021
Associate Dean of Undergraduate Student Affairs, 2021-2024.
Steering Committee, Computer Game Science Major, Donald Bren School of ICS 2012-2015.
Faculty Chair, Donald Bren School of Information and Computer Sciences, 2008-09.
Enterprise and Leadership Committee, DBSICS, 2007-08.

Network Policy Committee, 2005-2006.
ICS Faculty Panel for Undecided/Undeclared students, 2005.
Web committee 2003
ICS Graduate Policy Committee, 2002-2003

Chair, CS Faculty Hiring Committee, 2015
Graduate Admissions Committee, 2011-14.
Graduate Admissions Committee, 2004-2005.
CS PhD Curriculum committee, 2004.
Graduate Admissions Committee, 2003-2004.
Graduate Admissions Committee, 2001-2002
Cryptography Faculty Search Committee, 2001-2002

Professional Services

Guest Editor, IEEE Transactions on Visualization and Computer Graphics, 2013.
Papers Co-Chair, ACM Symposium on Interactive 3D Graphics and Games, 2013
Associate Editor, Journal of Graphical Models (GMOD), Elsevier Publication. 2010-
Conference Co-Chair, ACM Symposium on Interactive 3D Graphics and Games, 2012
Area Chair, Indian Conference on Vision, Graphics and Image Processing, 2012.
Area Chair, Indian Conference on Vision, Graphics and Image Processing, 2010.
Student Stipend Program Chair, ACM Symposium on Interactive 3D Graphics and Games, 2009.
Program Co-Chair, International Symposium on Visual Computing, 2006.
Program Chair, High Performance Visualization, ASTC Sym. on HPC 2004.
Program Committee, Conference on Geometric Modeling and Processing, 2014, 2015
Program Committee, ACM Interactive 3D Graphics and Games, 2008-2015
Program Committee, Expressive (Computational Aesthetics, Sketch-based Interfaces and Modeling, and Non-Photorealistic Rendering), 2013, 2014
Program Committee, CAD/Graphics 2011, 2013
Program Committee, Eurographics Workshop on Sketch-Based Interfaces and Modeling, 2005, 2006, 2008, 2011, 2012.
Program Committee, ACM Sym. on Solid and Physical Modeling, 2007-2010.
Program Committee, 3D Data Processing, Visualization, and Transmission, 2008.
Program Committee, Pacific Graphics, 2005, 2007.
Program Committee, SIGGRAPH, 2005-2009.
Program Committee, SIGGRAPH/Eurographics Sym. on Point Based Graphics, 2007, 2008.
Program Committee, International Symposium on Visual Computing, 2005-2013.
Session Chair, ASTC Symposium on HPC 2004.
Session Chair, IASTED Computer Graphics and Imaging, 2003.

Reviewer

IEEE Visualization, IEEE TVCG, Siggraph Asia, Siggraph, Eurographics, Pacific Graphics.
Sym. Computational Geometry, Sym. Geometry Processing, ACM I3D.
Sym. Solid and Physical Modeling, SIGGRAPI, Sym. Visual Computing.
NSF Proposal Review Panel.
Proposal Reviewer for the Netherlands Organisation for Scientific Research (NOW).
American Society of Mechanical Engineers IDETC/CIE 2005.
Journal of Computer Aided Geometric Design (2005)
Eurographics Computer Graphics Forum.
Elsevier Graphical Models.
Symposium on Theoretical Aspects of Computer Science 2005.
Journal of Machine Vision and Applications.
IEEE Transactions on Computers