

**Gopi Meenakshisundaram (M. Gopi)**  
**Department of Computer Science**  
**University of California, Irvine**

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949 824 9498

### 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

- Associate Dean for Student Affairs, July 2016-, Donald Bren School of Information and Computer Sciences.
- Co-Founder, Technical Advisor, Board Member, Summit Technology Laboratories. 2015-
- Professor, July 2013-, Department of Computer Science, UCI.
- 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

- 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  
Sensors, 18(4):1172, Aug 2018.
- 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, Shan 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, Shan 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  $\epsilon$ -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

- 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.
- 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. Niranjana, 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 Iher, 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]
- C35. *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
- C34. *K. Mkrtychyan, 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.
- C33. *Uddipan Mukherjee, M. Gopi, Jarek Rossignac*  
Immersion and Embedding of Self-Crossing Loops  
International Symposium on Sketch-Based Interfaces and Modeling, 2011
- C32. *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
- C31. *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 Visualization 2011 [Same as J20]
- C30. *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
- C29. *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]
- C28. *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%]
- C27. *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%]**
- C26. *Pablo Diaz-Gutierrez, David Eppstein, M. Gopi*  
Curvature Aware Fundamental Cycles  
Pacific Graphics 2009. [Same as J17]. **[18%]**
- C25. *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%]**
- C24. *Pablo Diaz-Gutierrez, Jonas Bosch, Renato Pajarola, M. Gopi*  
Streaming Surface Sampling Using Gaussian  $\epsilon$ -nets.  
Computer Graphics International, 2009. [Same as J16] **[29%]**
- C23. *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.
- C22. *Pablo Diaz-Gutierrez, David Eppstein, M. Gopi*  
Single Triangle Strip and Loop on Manifolds with Boundaries  
SIGGRAPH, **[33%]** October 2006.
- C21. *Masaki Kitago, M. Gopi*  
Efficient and Prioritized Point Subsampling for CSRBF Compression  
EUROGRAPHICS Symposium on Point Based Graphics, July 2006.
- C20. *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

- 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.
- CallT2 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**

- 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. Niranjana, 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, IISER, Kolkata
- Gautam Chaudhary, EECS, UCI [06/2004 - 08/2005]
- Kartic Sankar Subr, ICS, UCI. [09/2002- 03/2004] - Associate 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**

- Mehdi Rahimzadeh [Candidacy: 11/28/2016]
- Andy Thai
- Jessica Souza
- Isabela Figueira

### **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**

- 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, IISER, 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**

- 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. Niranjani [Candidacy: 07/02/2013]
- Siripen Pongpaichet [Candidacy: 07/03/2013]
- Laleh Jalali [Candidacy: 06/26/2013]
- Ish Rishabh [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**

- 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-
- Senate Sub-committee on Undecided/Undeclared Students, UCI, 2008-10.
  
- Steering Committee, Computer Game Science Major, Donald Bren School of ICS 2012-
- Faculty Chair, Donald Bren School of Information and Computer Sciences, 2008-09.
- Entrepreneurship 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, SIBGRAP, 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, SIBGRAPI, 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