

# CURRICULUM VITAE

## JOSE SASIAN

### CONTACT INFORMATION

College of Optical Sciences

University of Arizona

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### PROFESSIONAL AND RESEARCH INTERESTS

Education and teaching optical sciences. Optical engineering in general. Optical instrumentation, optical design, optical fabrication and testing, illumination optics, astronomical optics, diffractive optics, opto-mechanical design, lithography optics, Optics in art and art in optics, light in gemstones and light propagation as a general subject.

### CHRONOLOGY OF EMPLOYMENT

- Professor of Optics and Astronomy, University of Arizona, 2001 to date.
- Associate Professor, University of Arizona, 1995 to 2001.
- Member of Technical Staff, AT&T Bell Laboratories, 1990-1995.
- Research Associate, University of Arizona, Optical Sciences Center, 1989-1990.
- Research Assistant, University of Arizona, Optical Sciences Center, 1984-1988.
- Optician, University of Mexico, Institute of Astronomy, Mexico, 1974-1984.

### CHRONOLOGY OF EDUCATION

- Ph. D. Optical Sciences, December 1988. University of Arizona
- Master of Science, May 1987. University of Arizona
- B. Sc. Physics, October 1982. University of Mexico (UNAM)

## **SPECIAL ACHIEVEMENTS**

- Committee member of OSA Kevin Thompson Award, 2018-2019
- Committee member, evaluation of the School of Opto-electronics at the Beijing Institute of Technology, 2017.
- Chair, “Optical System Alignment, Tolerancing and verification” SPIE Conference, 2007-2019
- Member of the OSA and SPIE “Joseph Goodman Book Award” committee 2006-2008
- Topical Editor Applied Optics, 1998 to 2004
- Chair, “Novel Optical Systems Design and Optimization” SPIE Conference, 1995-2006
- Co Chair, “International Optical Design Conference,” 2002
- Co Chair, “Optical design and Testing Conference,” Shanghai, China 2002
- Co Chair, “Optical design and Testing Conference,” Beijing, China 2004
- Institute National for Astrophysics, Optics and Electronics (INAOE), Mexico, External Evaluating Committee, member 1996-2002
- Center for Research in optics (CIO), Mexico, External Evaluating Committee, member 2001 to 2004.
- Committee member of OSA Joseph Goodman Award, 2010
- Committee member of OSA Joseph Franhoufer Medal, 2004
- Committee member of OSA Adolph Lomb Medal, 1997
- Capella Photonics, Technical Advisory board member, 2001-2003
- ETEC, Technical Advisory board member, 1998
- Rudolf Kingslake medal and prize, 1994, International Society for Optical Engineering
- Merit award, Riverside Telescope Makers Conference, 1988

## **PROFESSIONAL AFFILIATIONS**

- Fellow of the International Society for Optical Engineering
- Optical Society of India, Lifetime member
- Fellow of the Optical Society of America

## **OPTICS COURSES**

- Lens Design OPTI-517 (1997-present)
- Introduction to Aberrations OPTI-518 (2005-present)
- Optical Shop Practices OPTI-597A (1996-present)
- Advanced Lens Design OPTI-696A (2008, 2012, 2017, 2018)
- Introduction to Opto-Mechanical Design OPTI-690 (1996-2000)
- Illumination optics Seminar (1997-2000)

## **SPECIAL COURSES**

- Advanced Lens Design, CORE Utsonomya University, Japan 2014.
- Advanced Lens Design, CORE Utsonomya University, Japan 2016
- Advanced Lens Design, CORE Utsonomya University, Japan 2017
- Lens Design, LAPAN, Indonesia, 2017.
- Optical Engineering, Photonic Sensors and Algorithms, Spain, 2017
- Mirror System Design with Freeform Surfaces, SPIE 2019

## **GRADUATED STUDENTS 1996-2019**

1. Zhenye Li, "Study of Fisheye Lens Attachments for Mobile Phone Lenses," M.Sc., 2019.
2. Vanesa Ayala-Miranda, "Report for Aberrations as Functions of the Shape Factor, Conjugate Factor, and Index of Refraction," M.Sc., 2019.
3. Timothy Johnson, "Optical System Design and Distortion Control of Wide Field of View, All-Reflective Imagers," Ph.D. 2019.
4. Wei-Cheng Lai, "Designing a 3D Confocal System," M.Sc. 2019.
5. Xi Zhou, "A 7.5X Afocal Zoom Lens Design and Kernel Aberration Correction Using Reversed Ray Tracing Methods," M.Sc., 2019.
6. Yufeng, Yan, "Selected Topics in Novel Optical Design," Ph.D., 2019.
7. Alex Felli, "Folded fisheye lens design for compact 360-degree virtual reality camera," M.Sc. 2018.
8. Slater Kirk, "Astigmatism in systems with double plane symmetry," M.Sc. 2018.
9. Ying Ting Liu, "Review and Design of a Mobile Phone Camera Lens for 21.4 Mega-Pixels Image Sensor," M. Sc. Report, 2017.
10. Haosheng Hu, "Report for Reflective System Designs Based on Freeform Mirrors," M. Sc. Thesis, 2017.
11. Luxin Nie, "Patent Review of Miniature Camera Lenses," M. Sc. Report, 2017.
12. Clarissa Kenney Wylde, "The Art of Optical Aberrations," M. Sc. Thesis, 2017.
13. Ruijuan Niu, "Overview of Microscope Objective Design," M. Sc. Thesis, 2017.

14. Yufeng Yan, M. Sc. Thesis, “Photographic Fisheye Lens Design for 35 mm Format Cameras,” 2016.
15. Jesse Ball, M.Sc. Thesis, “NCPA Optimizations at Gemini North using Focal Plane Sharpening,” 2016.
16. Gong Chen, M. Sc. Report “Design of a large a large working are F-theta lens,” 2016.
17. Emily Heaton, M.Sc. Report, “Interferometric Methods for Aligning and Measuring Test Surfaces,” 2016.
18. Andrew McCarron, M.Sc. Report, “Long wave infrared scan lens design and distortion correction,” 2016.
19. Taylor Davis Sorensen, M.Sc. “SWIR/MWIR Objective Lens,” Report 2016.
20. Rhiannon Katarina Jenkins, M.Sc. “MTF Lens Evaluation,” Report 2016.
21. Dmitry Reshidko, Ph.D. “Topics in Modern Lens Design,” Dissertation, 2016
22. Douglas, “Shadow Imaging of Geosynchronous Satellites,” Ph.D. Dissertation 2014.
23. Lori Ann Moore, “Plenoptic Cameras, Shack-Harman Wavefront Sensors, and Related Lens Array Based Optical Systems,” Ph.D. Dissertation 2014.
24. Yuhao Wang, “Advanced Theory of Field Curvature.” Ph.D. Dissertation 2014.
25. Adam Persia, M. Sc. Report 2014.
26. Eric Herman, M. Sc Report 2014.
27. Akash Arora, M. Sc. Report 2014.
28. Mary Liang, Design of Custom Chromatic Reimaging Optics,” Ms. Sc. Thesis 2013.
29. Oscar Martinez, “A Systematic Approach to Glass Selection for Complex Optical Systems.” Ms. SC. Thesis 2012.
30. Takashi Nakazawa, “Optical profilers,” Ph. D. Dissertation 2011.
31. Manit M. Limlamai, “ Optical systems in microlithography,” M. Sc. Report 2011.

32. Lirong Wang, "Design, modeling, and testing of optical surfaces in illumination optics," Ph. D. Dissertation, 2010.
33. Stacy Munger, "Spherical Aberration Study," M. Sc. Thesis, 2010.
34. Rong Lui, M. Sc. Report, 2010.
35. Ernest Fasse, "Image Motion Compensation," M. Sc. Report, 2010.
36. Cheng Kuei-Yeh, "Cell phone zoom lens design and patent research," M. Sc. Report, 2010.
37. Rania Abd El-Maksoud, "Ghost image analysis in Optical Systems," Ph.D. Dissertation, 2009.
38. Ralph Shepard, "Optical Design with Negative Index Materials," Ph. D. Dissertation, 2009.
39. Gerard Desroches, "Optical Design with Liquids," M. Sc. Report 2009.
40. Ryan Irving, "Optical Systems Design Considerations for Infrared Applications," M. Sc. Report, 2009.
41. Rachel Haynes, "Transferring FEA results into an optical design program," M. Sc. Report 2009.
42. Tim Johnson, "Optical design and analysis of an X-ray telescope and reflection grating spectrometer system," M. Sc. Report 2009.
43. Jacob Egan, "Design of a space-based optical camera for an asteroid sample return mission," M. Sc. Report, 2009.
44. Sheng Yuan, "Aberrations of Anamorphic Optical Systems," Ph. D. Dissertation. 2008.
45. Rob Bates, "Design for Fabrication: Miniature Camera Lens Case Study," M. Sc. Report, 2008.
46. Alice Palmer, "Multiple Aperture Telescope Collector Considerations," M. Sc. Report, 2008.
47. Ming Lie, "Optics Industry Comparison between United States of America and People's Republic of China, M. Sc. Report 2008.

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