RUOGU FANG

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Research Interests

Artificial Intelligence, Brain Dynamics, Multimodal Neuroimaging, Biomedical Data Science, Machine Learning, Intelligent Precision Medicine.

Appointments

University of Florida August 2017 - Present
Tenure-Track Assistant Professor
J. Crayton Pruitt Family Department of Biomedical Engineering
Affiliated, Department of Electrical and Computer Engineering
Affiliated, Department of Computer Information Science Engineering
Affiliated, Department of Radiology
Affiliated, Center for Cognitive Aging and Memory
Member, UF Informatics Institute (UFII)

Florida International University August 2014-June 2017
Tenure-Track Assistant Professor
School of Computing and Information Sciences
College of Engineering and Computing

Education

08/2009 - 08/2014 **Cornell University**
Ph.D. in Electrical and Computer Engineering, Minor in Computer Science
Advisor: Tsuhan Chen, David E. Burr Professor of Engineering and Director of ECE, IEEE Fellow
Dissertation Committee Member: Ramin Zabih, Noah Snavely, Pina C. Sanelli

02/2009 - 05/2009 **The University of Cambridge**
Visiting Research Student in Chemical Engineering and Biotechnology
Advisor: Christopher Lowe

08/2007 - 06/2008 **The University of Hong Kong (HKU)**
Exchange in Electrical and Electronic Engineering

Advisor: Kenneth K.Y. Wong

09/2005 - 06/2009 **Zhejiang University**, China
B.Eng. in Information Engineering, *Ranking: 1/141 in Chu-Kochen Honors College*
Advisor: Prof. Lu Yu

Grants

Total Funding: $1.6 M, Individual Investigator Funding: $774K

1. **PI**, IIS-1908299 III: Small: Modeling Multi-Level Connectivity of Brain Dynamics, National Science Foundation + REU Supplement, $516,000, 2019-2022.
2. **PI**, UFII-CTSI Pilot Award: Precision Dose: Personalized Radiation Dose Optimization for Multimodal Imaging, $75,000, 2018-2019.
3. **Single PI**, IIS-1564892 CRII: SCH: Characterizing, Modeling and Evaluating Brain Dynamics, National Science Foundation + REU Supplement, $190,991, 2016-2018. (Pre-CAREER Award)
4. **Single PI**, Modeling, Estimating and Reasoning in Limited Data Brain Dynamics, Ralph Lowe Junior Faculty Enhancement Award, Oak Ridge Associated Universities (ORAU), $10,000, 2016-2017.
5. **Co-PI**, UFII Junior SEED Award: Multimodal Visual-Text Learning from Clinical Narrative and Image for Early Detection of Diabetic Retinopathy, $40,000, 2019-2020
6. **Co-PI**, UFII-CTSI Pilot Award: Toward prevention of cardiotoxicity in cancer: a multimodal approach leveraging genomics, images and clinical data, $60,000, 2019-2020.
7. **Co-PI**, Seed Grant, Quantitative Differentiation Of Healing And Non-Healing Diabetic Ulcers Using Near-Infrared Optical Imaging, Florida International University, Department of Biomedical Engineering, $5,552, 2016-2017.
8. **PI**, Startup Grant, Florida International University, College of Engineering and Computing, $483,587, 2014-2016.
9. **Co-PI**, CTSC: Minimal Radiation Exposure Technology For Acute Stroke Assessment In CT Perfusion Using Sparse Deconvolution And Dictionary Learning, National Institute of Health, $100,000, 2015-2017.
10. **Co-I**, Phase I IUCRC University of Florida: Center for Big Learning, National Science Foundation, $750,000, PI: Xiaolin Andy Li, 2018-2022.
11. **Co-I**, DHS Scientific Leadership Awards for Minority Serving Institutions Granting Bachelor Degrees, Department of Homeland Security (DHS), $1,200,000, DHS-16-ST-062-001, PI: Jason Liu, 2017-2020.
12. **Key Personnel - Advanced Cyber Analytics**, DoD-W900KK-16-C-0043 CTAM: Cyber Attack Orchestration Test Bed for Automation and Threat Monitoring in Virtual Environment, Department of Defense, $1,500,000, 2016-2017.
13. **Senior Personnel**, REU SITE: ASSET: Research Experiences for Undergraduates in Advanced Secured Sensor Enabling Technologies, Florida International University, PI: Niki Pissinou, National Science Foundation, $360,000, 2016-2019.

14. **Senior Personnel**, REU SITE: ASSET: Research Experiences for Undergraduates in Advanced Secured Sensor Enabling Technologies, Florida International University, PI: Niki Pissinou, National Science Foundation, $360,000, 2013-2016.
15. **Senior Personnel**, RET in Engineering and Computer Science SITE: Research Experience for Teachers on Cyber-Enabled Technologies, National Science Foundation, PI: Niki Pissinou, National Science Foundation, $498,000, 2014-2017.
16. **Investigator**, Cornell University-Ithaca and Weill Cornell Medical College Faculty Seed Grant for Collaborations Between: Learning-Based Low Radiation CT Perfusion for Acute Stroke Diagnosis, PI: Ajay Gupta, Tsuhan Chen, Cornell University, $50,000, 2014-2015
17. **Key Personnel**, NINDS K23: Improving Clinical Outcomes in Aneurysmal Subarachnoid Hemorrhage Using CT Perfusion, PI: Pina C. Sanelli, $857,520, National Institute of Health, 2008 2013
18. **Key Personnel**, NIH NINDS: To Achieve Reliable Image Reconstruction From Sparse (Low-Dose) CT Perfusion Acquisitions, PI: Pina C. Sanelli, National Institute of Health, $54,000, 2010-2011

Honors and Awards

1. IEEE Senior Member, 2018.
2. First Place in 1st International Diabetic Retinopathy Grading and Segmentation Challenge, held with IEEE International Symposium of Biomedical Imaging, 2018.
3. Inaugural Class of the ACM Future of Computing Academy (FCA) (46 members selected worldwide and invited to attend ACM's celebration of 50 years of the ACM Turing Award), 2017
4. Ralph Lowe Junior Faculty Enhancement Award, Oak Ridge Associated Universities (1 of 35 awardees nationwide in the United States), 2016
5. Robin Sidhu Memorial Young Scientist Award, Society of Brain Mapping and Therapeutics (first recipient of this award), 2016
6. National Science Foundation CISE Research Initiation Initiative (CRII) Award, 2015
7. National Science Foundation CISE CAREER Workshop Travel Award, 2015
8. Hsien Wu and Daisy Yen Wu Memorial Award (awarded to 5 outstanding graduate students at Cornell University), 2014
9. Hottest Article in Medical Image Analysis, Elsevier Publisher, April-September, 2014
10. Best Paper Award, the 17th International Conference on Image Processing (Top 1 out of 1190 accepted papers, first author publication) 2010
11. Irwin and Joan Jacobs Fellowship, Cornell University, 2009-2010
12. Best PhD Poster Award, Cornell Engineering Research Conference, 2010
13. Student Travel Award, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2014
14. Student Travel Award, the 17th International Conference on Image Processing, 2010
15. IBM Cornell ECE Womens Conference Travel Grant, the 15th International Conference on Medical Image Computing and Computer Assisted Intervention, 2012
16. Bao-Steel Scholarship, P.R. China, 2008

17. Li & Fung Scholarship, University of Hong Kong (full stipend and tuition for exchange students), 2007-2008.
18. First Class Scholarship, Zhejiang University, 2006-2009
19. Deans List (top 1%), Zhejiang University, 2006-2009
20. First Prize in the National Olympiad in Mathematics, 2001

Book Chapters

Authors with $*$ are my (co-)supervised students. Underline means I serve as the corresponding author

1. **[Springer'19]** Yao Xiao*, Skylar Stolte*, Peng Liu*, Yun Liang*, Pina Sanelli, Ajay Gupta, Jana Ivanidze, **Ruogu Fang**: Deep Spatial-Temporal Convolutional Neural Networks for Medical Image Restoration, in Book Deep Learning and Convolutional Neural Networks for Medical Image Computing, Springer Publisher, 2019.
2. **[CRC'19]** **Ruogu Fang**, Samira Pouyanfar, Yimin Yang, Yao Xiao*, Jianqiao Tian*, Shu-Ching Chen, S.S. Iyengar: Big Data in Computational Health Informatics, in Book Big Data in Multimodal Medical Imaging, CRC Publisher, 2019. (Invited)

Refereed Journal Publications

Highlight: 8 first author journal papers, 14 corresponding author journal papers (underlined), 1 in the Lancet Digital Health, 7 in MIA (IF=11.15), 1 in IEEE TMI (IF=9.710), 1 in IEEE TCBY (IF=11.47), 1 in ACM CSUR (IF=7.99).

1. **[BrainStim'20]** Alejandro Albizu, **Ruogu Fang**, Aprinda Indahlastari, Andrew OShea, Skylar E. Stolte*, Kyle B. See*, Emanuel M. Boutzoukas, Jessica N. Kraft, Nicole R. Nissim and Adam J. Woods: Machine learning and individual variability in electric field characteristics predict tDCS treatment response. Brain Simulation,Volume 13, Issue 6, NovemberDecember 2020, Pages 1753-1764.
2. **[JOSAA'20]** E. A. Robledo, R. Schutzman, **R. Fang**, C. Fernandez, R. Kwasinski, K. Leiva,1 F. Perez-Clavijo, A. Godavarty1: Physiological wound assessment from coregistered and segmented tissue hemoglobin maps, in Journal of the Optical Society of America A, vol. 37, issue 8, pp. 1249-1256, 2020.
3. **[MIA'20]** Skylar E. Stolte*, **Ruogu Fang**: A Survey on Medical Image Analysis in Diabetic Retinopathy, in Medical Image Analysis, 2020.
4. **[MIA'20]** Yaxin Shen, Bin Sheng, **Ruogu Fang**, Huating Li, Ling Dai, Skylar Stolte*, Jing Qin, Weiping Jia, Dinggang Shen: Domain-Invariant Interpretable Fundus Image Quality Assessment, in Medical Image Analysis, vol. 61, p. 101654, 2020.
5. **[JWEIA'20]** Jianqiao Tian*, Kurtis Gurley, Maximillian Diaz, Pedro L. Fernandez Caban, Forrest J. Masters, **Ruogu Fang**: Low-Rise Gable Roof Buildings Pressure Prediction using Deep Neural Networks, in Journal of Wind Engineering Industrial Aerodynamics, 2020.
6. **[MIA'20]** Prasanna Porwal, Samiksha Pachade, Manesh Kokare, Girish Deshmukh, Jaemin Son, Woong Bae, Lihong Liu, Jianzong Wang, Xinhui Liu, Liangxin Gao, TianBo Wu, Jing Xiao,

Fengyan Wang, Baocai Yin, Yunzhi Wang, Gopichandh Danala, Linsheng He, Yoon Ho Choi, Yeong Chan Lee, Sang-Hyuk Jung, Zhongyu Li, Xiaodan Sui, Junyan Wu, Xiaolong Li, Ting Zhou, Janos Toth, Agnes Baran, Avinash Kori, Sai Saketh Chennamsetty, Mohammed Safwan, Varghese Alex, Xingzheng Lyu,r, Li Cheng,D, Qinhao Chu, Pengcheng Li, Xin Ji, Sanyuan Zhang, Yaxin Shen, Ling Dai, Oindrila Saha, Rachana Sathish, Tania Melo, Teresa Araujo, Balazs Harangi, Bin Sheng, **Ruogu Fang**, Debdoot Sheet, Andras Hajdu, Yuanjie Zheng, Ana Maria Mendonca, Shaoting Zhang, Aurelio Campilho, Bin Zheng, Dinggang Shen, Luca Giancardo, Gwenole Quellec, Fabrice Meriaudeau: IDRiD: Diabetic Retinopathy Segmentation and Grading Challenge, in *Medical Image Analysis*, vol. 59, 2020. `https://www.sciencedirect.com/science/article/pii/S1361841519301033?dgcid=coauthor` (**First Place in the International Diabetic Retinopathy Grading and Segmentation Challenge**)

7. [**MIA'20**] Jose Ignacio Orlando, Huazhu Fu, Joao Barbossa Breda, Karel van Keer, Deepti R. Bathula, Andres Diaz-Pinto, **Ruogu Fang**, Pheng-Ann Heng, Jeyoung Kim, JoonHo Lee, Joonseok Lee, Xiaoxiao Li, Peng Liu*, Shuai Lu, Balamurali Murugesan, Valery Naranjo, Sai Samarth R. Phaye, Sharath M. Shankaranarayana, Apoorva Sikka, Jaemin Son, Anton van den Hengel, Shujun Wang, Junyan Wu, Zifeng Wu, Guanghui Xu, Yongli Xu, Pengshuai Yin, Fei Li, Xiulan Zhang, Yanwu Xu, Hrvoje Bogunovic : REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs, in *Medical Image Analysis*, vol. 59, 2020. `https://doi.org/10.1016/j.media.2019.101570`
8. [**Lancet'19**] Derek B. Archer, ..., **Ruogu Fang**, ..., David E. Vaillancourt: Development and Validation of the Automated Imaging Differentiation in Parkinsonism (AID-P): A Multi-Site Machine Learning Study, in *The Lancet Digital Health*, Volume 1, Issue 5, 2019. `https://doi.org/10.1016/S2589-7500(19)30105-0` (**Featured on the Cover**)
9. [**JAMIA'19**] Xi Yang, Jiang Bian, **Ruogu Fang**, Ragnhildur I. Bjarnadottir, William R. Hogan, Yonghui Wu: Identifying Relations of Medications with Adverse Drug Events Using Recurrent Convolutional Neural Networks and Gradient Boosting, in *Journal of the American Medical Informatics Association*, 2019. `https://doi.org/10.1093/jamia/ocz144`
10. [**MIA'19**] Peng Liu*, Yangjunyi Li*, Mohammad D EI Basha*, Yao Xiao*, Pina C. Sanelli, **Ruogu Fang**: Deep Evolutionary Networks with Expedited Genetic Algorithm for Medical Image Denoising, in *Medical Image Analysis*, 54: 306-315, 2019. `https://doi.org/10.1016/j.media.2019.03.004` (corresponding author)
11. [**Frontiers'19**] Yao Xiao*, Peng Liu*, Yun Liang, Skylar Stolte*, Pina Sanelli, Ajay Gupta, Jana Ivanidze, **Ruogu Fang**: STIR-Net: Deep Spatial-Temporal Image Restoration Net for Radiation Reduction in CT Perfusion, in *Frontiers in Neurology*, 10:355, 2019. (corresponding author)
12. [**Nature SR'19**] Saleha Masood*, **Ruogu Fang**, Huating Li, Bin Sheng, Ping Li, Akash Mathavan, Xiangning Wang, Po Yang, Qiang Wu, Jing Qin, Weiping Jia: Automatic Choroid Layer Segmentation from Optical Coherence Tomography Images Using Deep Learning, in *Nature Scientific Reports*, 9(1):3058, 2019.
13. [**CIN'18**] Maryamossadat Aghili*, **Ruogu Fang**: Mining Big Neuron Morphological Data, in *Computational Intelligence and Neuroscience*, 2018. `https://doi.org/10.1155/2018/8234734` (corresponding author)
14. [**TCBY'18**] Bin Sheng, Ping Li, Shuangjia Mo, Huating Li, Xuhong Hou, Qiang Wu, Jing Qin, **Ruogu Fang**, and David Dagan Feng: Retinal Vessel Segmentation Using Minimum Spanning Superpixel Tree Detector, in *IEEE Transaction on Cybernetics*, 99, pp.1-13, 2018 (IF=8.803)

15. [**IET'17**] Saleha Masood*, Bin Sheng, Ping Li, Ruimin Shen, **Ruogu Fang**, Qiang Wu: Automatic Choroid Layer Segmentation Using Normalized Graph Cut, in *IET Image Processing*, pp. 22, DOI: 10.1049/iet-ipr.2017.0273, Online ISSN 1751-9667, 2017.
16. [**PR'17**] Zhongyu Li, **Ruogu Fang**, Fumin Shen, Shaoting Zhang: Indexing and Mining Large-Scale Neuron Databases using Maximum Inner Product Search, in *Pattern Recognition*, vol. 63, pp. 680-688, 2017.
17. [**NC'17**] Fei Jiang*, Huating Li, Xuhong Hou, Bin Sheng, Ruimin Shen, Xiao-Yang Liu, Weiping Jia, Ping Li, **Ruogu Fang**: Abdominal Adipose Tissues Extraction Using Multi-Scale Deep Neural Network, in *NeuroComputing*, vol. 229, pp. 23-33, 2017 (corresponding author).
18. [**NC'17**] **Ruogu Fang**, Ajay Gupta, Junzhou Huang, Pina Sanelli: TENDER: TEnsor Non-local Deconvolution Enabled Radiation Reduction in CT Perfusion, in *NeuroComputing*, vol. 229, pp. 13-22, 2017. (corresponding author)
19. [**CSUR'16**] **Ruogu Fang**, Samira Pouyanfar*, Yimin Yang, Shu-Ching Chen, and S. S. Iyengar: Computational Health Informatics in the Big Data Age: A Survey, in *ACM Computing Survey*, 49(1), p.12, 2016. (**5-Year Impact Factor: 4.66, highest impact factor in ISI Journal Citation Reports**) (corresponding author)
20. [**MCV'16**] **Ruogu Fang**, Ming Ni*, Junzhou Huang, Qianmu Li, Tao Li: Efficient 4D Non-Local Tensor Total-Variation for Low-Dose CT Perfusion Deconvolution, in *Medical Computer Vision: Algorithms for Big Data*, 9601, pp. 168-179, Lecture Notes in Computer Science, 2016. (corresponding author)
21. [**TMI'15**] **Ruogu Fang**, Shaoting Zhang, Tsuhan Chen, Pina C. Sanelli: Robust Low-dose CT Perfusion Deconvolution via Tensor Total-Variation Regularization, in *IEEE Transaction on Medical Imaging*, 34(7), p.1533-1548, 2015. (corresponding author)
22. [**CMIG'15**] **Ruogu Fang**, Tsuhan Chen, Dimitris Metaxas, Pina Sanelli, Shaoting Zhang.: Guest Editorial: Sparsity Techniques in Medical Imaging, in *Computerized Medical Imaging and Graphics*, 46(1), 2015. (corresponding author)
23. [**CMIG'15**] **Ruogu Fang**, Haodi Jiang*, Junzhou Huang: Tissue-Specific Sparse Deconvolution for Brain CT Perfusion, in *Computerized Medical Imaging and Graphics*, 46(1), p. 64-72, 2015. (corresponding author)
24. [**MIA'14**] **Ruogu Fang**, Kolbeinn Karlsson*, Tsuhan Chen, Pina C. Sanelli: Improving Low-Dose Blood-Brain Barrier Permeability Quantification Using Sparse High-Dose Induced Prior for Patlak Model, in *Medical Image Analysis*, 18(6), pp. 866-880, 2014. (corresponding author)
25. [**MIA'13**] **Ruogu Fang**, Tsuhan Chen, Pina C. Sanelli: Towards Robust Deconvolution of Low-Dose Perfusion CT: Sparse Perfusion Deconvolution Using Online Dictionary Learning, in *Medical Image Analysis*, 17(4), pp. 417-428, 2013 (5 Year Impact Factor: 4.512, **Top 25 Hottest Articles in Medical Image Analysis in 2013 April-June**, corresponding author).

Refereed Conference and Workshop Publications

Highlight: 17 first author papers and 47 senior author papers (underlined), 12 in MICCAI (leading conference in Medical Image Analysis), 1 Best Paper Award, 1 Presential Trainee Award, 4 Travel Awards, 1 NSF REU Best Poster Award

Authors with $*$ are my (co-)supervised students

1. [**RSNA'20**] Maximillian Diaz*, Jianqiao Tian*, **Ruogu Fang**: Machine Learning for Parkinsons Disease Diagnosis Using Fundus Eye Images, Annual Meeting of Radiology Society of North America (RSNA), December, 2020.
2. [**AHA'20**] Skylar Stolte*, Yonghui Wu, William R Hogan, Yan Gong, **Ruogu Fang**: Artificial Intelligence For Characterizing Heart Failure In Cardiac Magnetic Resonance Images, American Heart Assocation Scientific Sessions, November 13-17, 2020.
3. [**INS'20**] Alejandro Albizu, **Ruogu Fang**, Aprinda Indahlastari, Nicole R. Nissim, Andrew OShea,Adam J. Woods: Building Personalized Medicine Models for Therapeutic Applications of Transcranial Electrical Stimulation, in the 48th Annual Meeting of the International Neuropsychological Society in February 2020.
4. [**SIIM'20**] Yao Xiao*, Manuel M. Arreola, Izabella Barreto, Wesley E. Bolch, W. Christopher Fox, Keith Peters, Dhanashree A. Rajderkar, John H. Rees, and **Ruogu Fang**: Multi-Series CT Image Super-Resolution by using Transfer Generative Adversarial Network, in Society for Imaging Informatics in Medicine (SIIM) Annual Meeting, Austin, Texas, June 24-26, 2020 (Oral)
5. [**ISBI'20**] Yao Xiao*, Keith R. Peters, W. Christopher Fox, John H. Rees, Dhanashree A. Rajderkar, Manuel M. Arreola, Izabella Barreto, Wesley E. Bolch, and **Ruogu Fang**: Transfer-GAN: Multimodal CT Image Super-Resolution via Transfer Generative Adversarial Networks, in IEEE International Symposium on Biomedical Imaging (ISBI), Iowa City, Iowa, April 3-7, 2020. (Travel Awards funded by US National Institutes of Health (NIH), National Institute of Biomedical Imaging and Bioengineering (NIBIB), National Cancer Institute (NCI), and Graduate Student Council)
6. [**SPIE Medical Imaging'20**] Yao Xiao* and **Ruogu Fang**: Transfer Generative Adversarial Network for Multimodal CT Image Super-Resolution, in SPIE Medical Imaging, Houston, Texas, Feb 15-20, 2020 (Oral)
7. [**SNAMC'20**] Justin L Brown, Daniel El Basha*, Nathalie Correa, Yao Xiao*, Izabella Barreto, **Ruogu Fang**, Chan Kim, Wesley E. Bolch: Monte Carlo Dosimetry For CT Brain Perfusion Studies Utilizing Volumetric Acquisitions, in Joint International Conference on Supercomputing in Nuclear Applications + Monte Carlo 2020.
8. [**ASCPT'20**] Marwa Tantawy, Sonal Singh, Guang Yang, Matt Gitzendanner, Yiqing Chen, Yonghui Wu, **Ruogu Fang**, William Hogan, Yan Gong: ZMAT4 and DOCK9 Variants Associated with Heart Failure in Breast Cancer Patients in the UK Biobank data, in American Society for Clinical Pharmacology and Therapeutics Annual Meeting in Houston, TX, March 18-21, 2020. **Presidential Trainee Award, 2020 David J. Goldstein Trainee Award** (This award is presented each year to recognize the highest scoring trainee abstract.).
9. [**RSNA'19**] Yao Xiao*, Manual Arreola, Izabella Barreto, W. Christopher Fox, Keith Peters, **Ruogu Fang**: Multimodal CT Image Super-Resolution via Transfer Generative Adversarial Network, in Annual Meeting of Radiology Society of North American, December 2019. (Oral presentation)
10. [**MICCAI'19**] Peng Liu*, Bin Kong, Zhongyu Li, Shaoting Zhang, **Ruogu Fang**: CFEA: Collaborative Feature Ensembling Adaptation for Domain Adaptation in Unsupervised Optic Disc and Cup Segmentation, in Medical Image Analysis and Computer Assisted Intervention, October, 2019. (Early Acceptance Rate = 10%-15%)
11. [**MICCAI'19**] Siyuan Pan, Yuxin Xue, Bin Sheng, Xuhong Hou, Huating Li, **Ruogu Fang**, Weiping Jia, Jing Qin: Abdominal Adipose Tissue Segmentation in MRI with Double Loss Function Collaborative Learning, in Medical Image Analysis and Computer Assisted Intervention, October, 2019. (Early Acceptance Rate = 10%-15%)

12. [**BMES'19**] Yao Xiao*, **Ruogu Fang**: Multimodal CT Image Super-Resolution via Transfer-GAN, in Biomedical Engineering Society Annual Meeting, October, 2019, Philadelphia, PA.
13. [**BMES'19**] Jianqiao Tian*, Max Diaz*, **Ruogu Fang**: Deep Learning-based Alzheimers Disease Classification of FDG-PET and AV45 PET Images , in Biomedical Engineering Society Annual Meeting, October, 2019, Philadelphia, PA.
14. [**BMES'19**] Skylar Stolte*, **Ruogu Fang**: Artificial Intelligence For Automated Diagnosis of Glaucoma In Stereoscopic Images, in Biomedical Engineering Society Annual Meeting, October, 2019, Philadelphia, PA.
15. [**BMES'19**] Kyle See*, **Ruogu Fang**: Classification Of Neural Stimulations In The Brain With Super Voxels , in Biomedical Engineering Society Annual Meeting, October, 2019, Philadelphia, PA.
16. [**BMES'19**] Skylar Stolte*, Kyle See*, Daniel El Basha*, **Ruogu Fang**: Retinal Disease Diagnosis Using Mobile Devices , in Biomedical Engineering Society Annual Meeting, October, 2019, Philadelphia, PA.
17. [**MICCAI'18**] Peng Liu*, Yangjunyi Li, Mohammad D El Basha, **Ruogu Fang**: Neural Network Evolution Using Expedited Genetic Algorithm for Medical Image Denoising, in Medical Image Analysis and Computer Assisted Intervention, September, 2018, Granada, Spain.
18. [**MLMI'18**] Yaxin Shen, **Ruogu Fang**, Bin Sheng, Ling Dai, Huating Li, Jing Qin, Qiang Wu, Weiping Jia: Multi-task Fundus Image Quality Assessment via Transfer Learning and Landmarks Detection. Machine Learning in Medical Imaging, September, 2018, Granada, Spain. (corresponding author)
19. [**BMES'18**] Yao Xiao*, Peng Liu, **Ruogu Fang**: Low-Dose CT Perfusion Image Restoration and Radiation Reduction, in Biomedical Engineering Society Annual Meeting, Atlanta, GA, October, 2018. (Oral Presentation)
20. [**BMES'18**] Yao Xiao*, Yun Liang, Yunmei Chen, Xiaojing Ye, and **Ruogu Fang**: Efficient Multi-Modality Medical Image Joint Reconstruction via Vectorized Gradient, in Biomedical Engineering Society Annual Meeting, Atlanta, GA, October, 2018.
21. [**BMES'18**] Skylar Stolte*, Yao Xiao*, **Ruogu Fang**: Multi-Modality Brain Image Co-Registration, in Biomedical Engineering Society Annual Meeting, Atlanta, GA, October, 2018.
22. [**BMES'18**] Kyle B. See*, **Ruogu Fang**: Decision Tree-based Classification for Differentiating System Lupus Erythematosus and Mixed Connective Tissue Disease, in Biomedical Engineering Society Annual Meeting, Atlanta, GA, October, 2018.
23. [**TAPIA'18**] Yao Xiao*, Peng Liu*, Yun Liang*, **Ruogu Fang**: STDN: Spatial-Temporal Denoising Net for Radiation Optimization in CT Perfusion, in ACM Richard Tapia Celebration of Diversity in Computing, September, Orlando, FL. 2018. (**Student Travel Scholarship**)
24. [**ASNR'18**] Yao Xiao*, Yun Liang*, Yunmei Chen, Xiaojing Ye, **Ruogu Fang**: Multi-Modality PET-MRI Image Joint Reconstruction, in ASNR 56th Annual Meeting & The Foundation of the ASNR Symposium, Vancouver, Canada, June, 2018. (Oral Presentation)
25. [**ASNR'18**] Yao Xiao*, Pina C. Sanelli, **Ruogu Fang**: Image Super-Resolution and Radiation Reduction via Deep Learning, in ASNR 56th Annual Meeting & The Foundation of the ASNR Symposium, Vancouver, Canada, June, 2018. (Oral Presentation)

26. [**ASNR'18**] Peng Liu*, **Ruogu Fang**: Regulated-convolutional Networks for Low-dose Cerebral CT Perfusion Restoration, in ASNR 56th Annual Meeting & The Foundation of the ASNR Symposium, Vancouver, Canada, June, 2018. (Oral Presentation)
27. [**ISBI'18**] Peng Liu*, **Ruogu Fang**: SDCNET: Smoothed Dense-Convolution Network For Restoring Low-Dose Cerebral CT Perfusion, in IEEE International Symposium on Biomedical Imaging, April, 2018, Washington D.C.
28. [**MICCAI'17**] Yao Xiao*, **Ruogu Fang**: STAR: Spatio-Temporal Architecture for super-Resolution in Low-Dose CT Perfusion, in *Medical Image Analysis and Computer Assisted Intervention, Machine Learning in Medical Imaging Workshop*, September, 2017, Quebec, Canada. (**MICCAI Student Travel Award, 50/810=6% award rate**, corresponding author)
29. [**BMES'17**] Yao Xiao*, **Ruogu Fang**: Cardiovascular Disease Prediction and Risk Factor Mining with RFMiner, in *Biomedical Engineering Society Annual Meeting (BMES)* Annual Meeting, October 11-14, 2017, Phoenix, Arizona. (corresponding author)
30. [**BMES'17**] Yao Xiao*, **Ruogu Fang**: Accelerated Brain Perfusion Imaging via Spatio-Temporal Super-Resolution, in *Biomedical Engineering Society Annual Meeting (BMES)* Annual Meeting, October 11-14, 2017, Phoenix, Arizona. (oral presentation, corresponding author)
31. [**BMES'17**] Peng Liu*, **Ruogu Fang**: A Simple and Realistic Simulation Method for Low-Dose CT., in *Biomedical Engineering Society Annual Meeting (BMES)* Annual Meeting, October 11-14, 2017, Phoenix, Arizona. (corresponding author)
32. [**CHASE'17**]) Yao Xiao*, **Ruogu Fang**: RFMiner: Risk Factors Discovery and Mining for Preventive Cardiovascular Health, in the Second IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies, July, 2017, Philadelphia, USA. (**NSF Student Travel Award**, corresponding author)
33. [**NIPS WiML'16**] Maryamossadat Aghili*, **Ruogu Fang**: Towards High-Throughput Abnormal Brain Screening in MRI Images, in *Women in Machine Learning Workshop, Neural Information Processing Systems (NIPS)*, December 2016, Barcelona, Spain. (corresponding author)
34. [**BMES'16b**] Paul Naghshineh*, Peng Liu*, **Ruogu Fang**: CT Perfusion Image Super-Resolution Using a Deep Convolutional Network, in *Biomedical Engineering Society Annual Meeting* (*BMES*), October 5-8, 2016 in Minneapolis, Minnesota. (**NSF-REU Best Post Award, SCIS FIU**, corresponding author)
35. [**BMES'16a**] Anuradha Godavarty, Rebecca Kwasinki, Cristianne Fernandez, Yuanyuan Zhu*, Edwin Robledo, F. Perez-Clavijo, **Ruogu Fang**: Physiological Assessment of Wound Healing using a Near-Infrared Optical Scanner, in *Biomedical Engineering Society Annual Meeting* (*BMES*), October 5-8, 2016 in Minneapolis, Minnesota.
36. [**ISBI'16c**] **Ruogu Fang**, Xing Pang*, Arash Dadkhah, Jiali Lei, Elizabeth Solis, Suset Rodriguesz, Francisco Perez-Clavijo, Stephen Wigley, Charles Buscemi, Anuradha Godvarty: Automatic Segmentation of Lower Extremity Ulcers in Near-Infrared Optical Imaging, in *IEEE International Symposium on Biomedical Imaging* (*ISBI*), Prague, Czech Republic, April, 2016. (corresponding author)
37. [**ISBI'16b**] Zhongyu Li, Fumin Shen, **Ruogu Fang**, Sailesh Conjeti, Amin Katouzian, Shaoting Zhang: Maximum Inner Product Search for Morphological Retrieval of Large-Scale Neuron Data, in *IEEE International Symposium on Biomedical Imaging* (*ISBI*), Prague, Czech Republic, April, 2016. (Oral Presentation Rate: 19%)

38. **[ISBI'16a]** **Ruogu Fang**, Ajay Gupta, Pina C. Sanelli: Direct Estimation of Permeability Maps for Low-Dose CT Perfusion, in *IEEE International Symposium on Biomedical Imaging* (*ISBI*), Prague, Czech Republic, April, 2016. (corresponding author)

39. **[OSA'16]** Xing Pang*, Arash Dadkhah, Jaili Lei, Elizabeth Solis, Suset Rodriguez, Francisco Perez-Clavijo, Stephen Wigley, **Ruogu Fang**, Anuradha Godvarty: Near-Infrared Optical Imaging and Wound Segmentation in Lower Extremity Ulcers, in *Optical Society of America Annual Meeting* (*OSA*), 2016.

40. **[SPIE'16]** Arash Dadkhah, Xing Pang*, Elizabeth Solis, **Ruogu Fang**, Anuradha Godvarty: Wound Size Measurement of Lower Extremity Ulcers Using Segmentation Algorithms, in *SPIE Proceedings in Photonics West*, San Francisco, February 2016.

41. **[WI'16]** **Ruogu Fang**, Xing Pang*, Arash Dadkhah, Jiali Lei, Elizabeth Solis, Suset ROdriguez, Francisco Perez-Calvijo, Stephen Wigley, Charles Buscemi, Anuradha Godvarty: Wound Segmentation in Near-Infrared Optical Imaging, in *Innovation in Wound Healing*, Hawks Cay, FL. 2015.

42. **[WI'16]** Rebecca Kwasinski, Cristianne Fernandez, Kevin Leiva, Edwin Robledo, Yuanyuan Zhu, Penelope Kallis, Francesco-Perez Clavijo, **Ruogu Fang**, Robert Kirsner, Anuradha Godavarty.: Hemodynamic Imaging of Lower Extremity Ulcers, Innovations in Wound Healing, 2016.

43. **[MICCAI'15]** Ruoyu Li, Yeqing Li, **Ruogu Fang**, Shaoting Zhang, Junzhou Huang: Fast Preconditioning for Accelerated Multi-Contrast MRI Reconstruction, in *The 18th Annual International Conference on Medical Image Computing and Computer Assisted Intervention*, Munich, Germany, Oct. 5-9, 2015. (**Oral Presentation Rate: 4%**)

44. **[MICCAI-MCV'15]** **Ruogu Fang**, Ming Ni, Junzhou Huang, Qianmu Li, Tao Li: Efficient 4D Non-Local Tensor Total-Variation for Low-Dose CT Perfusion Deconvolution, *The 18th Annual International Conference on Medical Image Computing and Computer Assisted Intervention, Workshop on Medical Computer Vision*, Munich, Germany, October 2015. (corresponding author)

45. **[BMES'15]** **Ruogu Fang**, Ming Ni, Junzhou Huang, Qianmu Li, Tao Li: Robust Low-Dose CT Perfusion Deconvolution via Non-Local Tensor Total Variation, in *Biomedical Engineering Society Annual Meeting*, Tampa, FL, October 2015. (corresponding author)

46. **[ISMRM'15]** **Ruogu Fang**: 4-D Spatio-Temporal MR Perfusion Deconvolution via Tensor Total Variation, in *International Society for Magnetic Resonance in Medicine Annual Meeting* 2015 (Oral presentation, corresponding author).

47. **[ISBI'15b]** Menglin Jiang, Shaoting Zhang, **Ruogu Fang**, Dimitris Metaxas: Leveraging Inverted Multi-Index for Scalable Retrieval of Mammographic Masses, in *IEEE International Symposium Onbiomedical Imaging: From Nano To Macro*, New York, NY April, 2015. **Oral Presentation Rate: 18%**

48. **[ISBI'15a]** **Ruogu Fang**, Junzhou Huang, Wen-Ming Luh: A Spatio-Temporal Low-Rank Total Variation Approach For Denoising Arterial Spin Labeling MRI Data, in *IEEE International Symposium Onbiomedical Imaging: From Nano To Macro*, New York, NY April, 2015.(corresponding author)

49. **[MICCAI'14]** **Ruogu Fang**, Pina Sanelli, Shaoting Zhang, Tsuhan Chen: Tensor Total-Variation Regularized Deconvolution for Efficient Low-Dose CT Perfusion, in *The 17th Annual International Conference on Medical Image Computing and Computer Assisted Intervention*, Boston, MA. September 2014 (**MICCAI Student Travel Award**, corresponding author)

50. [**MICCAI-STMI'14**] **Ruogu Fang**, Tsuhan Chen, Pina C. Sanelli: Anisotropic Tensor Total Variation Regularization For Low Dose Low CT Perfusion Deconvolution, in *The 17th Annual International Conference on Medical Image Computing and Computer Assisted Intervention, Workshop on Sparsity Techniques in Medical Imaging*, Boston, MA. September 2014. (corresponding author)
51. [**MICCAI'13**] **Ruogu Fang**, Tsuhan Chen, Pina Sanelli: Tissue-Specific Sparse Deconvolution for Low-Dose CT Perfusion, in *The 16th Annual International Conference on Medical Image Computing and Computer Assisted Intervention*, Japan, 2013. (corresponding author)
52. [**ICIP'13**] **Ruogu Fang**, Andrew C. Gallagher, Tsuhan Chen, Alexander Loui: Kinship Classification by Modeling Facial Feature Heredity, in *IEEE International Conference on Image Processing*, Melbourne, Australia, 2013 (Oral presentation)
53. [**MICCAI'12**] **Ruogu Fang**, Tsuhan Chen, Pina Sanelli: Sparsity-Based Deconvolution of Low-Dose Perfusion CT Using Learned Dictionaries, in *The 15th Annual International Conference on Medical Image Computing and Computer Assisted Intervention*, Nice, France, Lecture Notes in Computer Science Volume 7510, pp. 272-280, 2012. (corresponding author)
54. [**ISBI'12**] **Ruogu Fang**, Tsuhan Chen, Pina Sanelli: Sparsity-Based Deconvolution Of Low-Dose Brain Perfusion CT In Subarachnoid Hemorrhage Patients, in *The 9th IEEE International Symposium on Biomedical Imaging*, pp. 872-875, 2012 (**Oral Presentation Rate: 18%**, corresponding author)
55. [**SPIE'12**] **Ruogu Fang**, Ashish Raj, Tsuhan Chen, Pina C. Sanelli: Radiation dose reduction in computed tomography perfusion using spatial-temporal Bayesian methods, in *Proceedings of SPIE Medical Imaging*, Volume 8313, Paper 831345, 2012. (corresponding author)
56. [**MICCAI-AI'11**] **Ruogu Fang**, Ramin Zabih, Ashish Raj, Tsuhan Chen: Segmentation of Liver Tumor Using Efficient Global Optimal Tree Metrics Graph Cuts, in *Abdominal Imaging, International Conference on Medical Image Computing and Computer Assisted Intervention*, pp. 51-59, 2011 (Oral presentation, corresponding author)
57. [**ICIP'10**] **Ruogu Fang**, Kevin D. Tang, Noah Snavely, Tsuhan Chen: Towards Computational Models of Kinship Verification, in *The 17th IEEE International Conference on Image Processing*, Hong Kong, 2010 (Oral presentation, **Best Paper Award, 1/1190 accepted papers**).
58. [**WNYIPW'10**] **Ruogu Fang**, Joyce Yu-hsin Chen, Ramin Zabih, Tsuhan Chen: Tree-Metrics Graph Cuts For Brain MRI Segmentation With Tree Cutting, in *IEEE Western New York Image Processing Workshop*, pp. 10-13, 2010 (Oral presentation).
59. [**VISAPP'09**] Chongyang Liu, **Ruogu Fang**, Nelson H.C.Yung: Adaptive Scale Robust Feature Density Approximation For Visual Object Representation And Tracking, in *IEEE International Conference on Computer Vision Theory and Applications*, Lisboa, Portugal, 2009.

Patent

1. **Ruogu Fang**, Leo Grady, Gianluca Paladini: System and Method For Interactive Segmentation On Mobile Devices in a Cloud Computing Environment, Siemens Corporation, U.S. Patent No: US20130272587 A1, WO2012027259 A2, WO2012027259 A3, approved on 4/19/2012.
2. Peng Liu*, **Ruogu Fang**: Neural Network Evolution Using Expedited Genetic Algorithm for Medical Image Denoising. Ref. No: UF-17344, Filed on 9/10/2018, Provisional Patent. US 62/728,995.

Talks & Presentations

1. Albizu A, **Fang R**, Indahlastari A, Nissim NR, OShea A, Woods AJ: Determinants of Treatment Response to Transcranial Direct Current Stimulation, in the 5th Annual NYC Neuromodulation Conference in April 2020. (**Outstanding Presentation by Early Career Scientist Award**)
2. **Big Medical Data in Brain Imaging**
   - Department of Biomedical Engineering, University of Florida, FL. 2017;
   - Department of Computer Science, Florida State University, FL. 2017;
   - Department of Bioengineering & Electrical and Computer Engineering, University of California at Riverside, CA. 2017;
   - Math and Statistics, FIU, FL. 2016;
   - Department of Biological Sciences, FIU, FL. 2016;
3. **Big Medical Data: Brain Vision and Wound**, at Zhejiang University, China, 2016
4. **Exploiting Big Medical Data in Brain Imaging**, at South Medical University, China, 2016
5. **Robust Low-Dose CT Perfusion Deconvolution via Non-Local Tensor Total Variation**, at Biomedical Engineering Society Annual Meeting, Tampa, FL, 2015;
6. **Structure Learning-Based Big Medical Image Analytics**, at International Young Researcher Medicine and Health Forum, China, 2016.
7. **Big Medical Data: Challenges, Opportunities and Advances**, BME Wallace H. Coulter Foundation Lecture Series, in Biomedical Engineering, Florida International University, 2015;
8. **4-D Spatio-Temporal MR Perfusion Deconvolution via Tensor Total Variation**, at International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, Toronto, Canada, 2015;
9. **Exploiting the Medical Data Structure for Biomedical Imaging Enhancement**
   - School of Astronautics at BeiHang University (BUAA), Beijing, China, 2015;
   - New Century Seminars, Shandong Normal University, Jinan, Shandong. 2015;
   - School of Information Science and Technology, ShanghaiTech, Shanghai, China, 2015;
   - College of Engineering and Computing, Florida International University, 2014;
   - School of Computing and Information Sciences, Florida International University, 2014
10. **Robust Medical Image Analysis In Assessing Disease Progression and Treatment Response**, at International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), Miami, FL, 2014
11. **Towards Safer Medical Imaging: Sparsity-based Perfusion Deconvolution**, at Weill Cornell Medical College, NY, 2014;
12. **Towards Robust Medical Imaging**
    - Indiana University, IN, 2014;
    - Florida International University, FL, 2014;
13. **Learning-based Low-Dose Medical Imaging Enhancement**, at Shanghai Jiao Tong University, 2014;
14. **Sparse Deconvolution**

- Shanghai Jiao Tong University, 2014;
- College of Information Science, Zhejiang University, 2014;
- College of Biomedical Engineering Instrument Science, Zhejiang University, 2014;

15. **Kinship Classification by Modeling Facial Feature Heredity**, at the International Conference on Image Processing, Melbourne, Australia, 2013;
16. **Learning-based Low-Dose Medical Imaging Enhancement**, at Xiamen University, China, 2013;
17. **Sparsity-Based Deconvolution Of Low-Dose Brain Perfusion CT**
    - The International Symposium on Biomedical Imaging, San Francisco, CA, US
    - International Symposium on Biomedical Imaging, Barcelona, Spain, 2012;
18. **Segmentation of Liver Tumor Using Efficient Global Optimal Tree Metrics Graph Cuts**, at International Conference on Medical Image Computing and Computer Assisted Intervention, 2011;
19. **Towards Computational Models of Kinship Verification**
    - The International Conference on Image Processing, Hong Kong, 2010;
    - Carnegie Mellon University, Pittsburgh, PA, 2010.

Professional Activities

Journal Editorship:
Guest Editor, Computerized Medical Imaging and Graphics, Elsevier

Chair:
Co-Chair: STMI (with MICCAI'14)
Program Committee Publicity Chair: IEEE ICMLA 2015
Session Chair: SBMT 2017, BMES Imaging Data Science, Processing, Modeling and Informatics 2018

Panelist:
National Science Foundation, Smart and Connected Health, 2015
National Science Foundation, Smart and Connected Health, 2016
National Institute of Health, Bio-Data Management and Analysis Study Section, 2016

Program Committee Member or Reviewer:
Books: *Wiley Publisher; Elsevier Publisher*;
Journals: *The Lancet (IF: 59.102); IEEE Transaction on Pattern Analysis and Artificial Intelligence (IF:17.730); Medical Image Analysis (IF: 8.88); IEEE Transactions on Medical Imaging (IF: 7.81); IEEE Transaction on Image Processing (IF: 5.071); ACM Computing Survey (IF: 6.131); Pattern Recognition (IF: 3.399); IEEE Transaction on Circuits and Systems for Video Technology (IF: 2.615) Neuroradiology (IF: 2.4); Neurocomputing (IF: 2.005); Computerized Methods and Programs in Biomedicine (IF: 1.964) IEEE Transaction on Multimedia (IF: 1.776); IEEE Transaction on Instrumentation Measurement (IF: 1.7); Signal Processing Letter (IF=1.6); Journal Electronic Imaging (IF: 1.601); IEEE Signal Processing Letter; IBM Journal of Research and Development; Cancer Informatics; Machine Vision and Applications*

(IF: 1.103), X-Ray Science and Technology (IF: 1.111); IET Imaging Processing; Computational Intelligence and Neuroscience
Conferences: *MICCAI (2014, 2015, 2016), MICCAI-MCV (2015, 2016), IEEE CVPR (2013), IEEE ICCV (2013), IEEE ICIP (2010, 2011, 2012, 2013), IEEE ISBI (2014, 2015).*

News Coverage

- ACM Future of Computing Academy, 2017.
- ACM TechNews, 2016.
- Healthcare Business, 2016.
- FIU News: Professor uses computer science to reduce patients exposure to radiation from CT scans, 2016.
- NewScientist: Facial recognition software spots family resemblance, 2012.
- Cambridge News: University of Cambridge Official News: Students from 'Cambridge of the East' take part in exchange, 2009.

Courses Taught

Undergraduate level

- BME 3053C: Computer Applications for BME, University of Florida, Fall 2017, 2018, 2019.
- CAP 4770: Introduction to Data Mining, Florida International University, Fall 2015, Fall 2016 (Average Student Evaluation Score: **4.74/5.00**);

Graduate Level

- BME 6938 Multimodal Data Mining, University of Florida, Spring 2019 (Average Student Evaluation Score: **4.87/5.00**);
- CAP 5610: Machine Learning, Florida International University, Spring 2014, Spring 2015, Spring 2016 (Average Student Evaluation Score: **4.46/5.00**);

Mentoring

Current PhD Students

1. Yao Xiao (Female): 08/2016-08/2020 (expected)
    - University of Florida College of Engineering Commencement Student Speaker
2. Peng Liu: 05/2016-12/2020 (expected)
3. Jianqiao Tian: 08/2018-05/2022 (expected)
4. Kyle B. See: 08/2019 - 05/2023 (expected) (NIH TL1 Fellow)

Current Master Students

5. Skylar E. Stolte (Female): 08/2019 - 05/2020
6. Shreya Verma (Female), BME, 03/2020 - Present
7. Bhavin Soni, BME, Spring 2021

Current Undergraduate Students

8. Sumanth Aluri, CISE, 2018-
9. Max Diaz (Hispanic), BME, 2018-2020, University Scholar,
10. Charlie Tran, ECE, 2018 -
11. James-B Nyugen, BME, 2018-
12. Rachel Peebles, BME, 2018-
13. Garrett Fullerton, BME, 2019-, University Scholar
14. Ahmet Bilgili, BME, 2019-
15. Gianna Sweeting (female, African American), BME, 2019-
16. Adeeb Rashid, BME CISE, 2019-
17. Jason Chen, CISE, 2019-
18. Muhamed Hobi, BME CISE, 2019-
19. Edward Zhang, CISE Finance, 2020-
20. Neeva Sethi, CISE, 2020-

Master's Alumni

21. Haodi Jiang, CISE, 2014-2015, now PhD student at New Jersey Institute of Technology.
22. Jingan Qu, CISE, 2015-2017.
23. Daniel Parra, CISE, 2015-2016.
24. Micheal Adeyosoye (African American): CISE, 2016-2017, Bridge to PhD Fellowship.

Undergraduate Alumni

25. Mohammad Daniel El Basha (Hispanic), BME, NSF REU Awardee, 2017-2019.
26. Kyle See, BME, NSF REU Awardee, 2017-2019.
27. Akshay Mathavan, BME, NSF REU Awardee, University Scholar, 2017-2019.
28. Akash Mathavan, NSF REU Awardee, University Scholar, 2017-2019.
29. Skylar Stolte (Female), BME, 2018-2019.
30. Paul Naghshineh, CISE, NSF REU Awardee, George Washington University, 2016 summer, Best REU Poster Award at REU Symposium.
31. Sherman Ng, ECE, Cornell University, 2010-2011.

Secondary School Teachers

32. Christian McDonald: RET teacher from Miami Jackson Senior High School, 2016 summer, Best RET Poster Award at RET Symposium, SCIS of FIU.
33. Edda Rivera (Female): RET teacher from John A. Ferguson Senior High School, 2016 summer, Best RET Poster Award at RET Symposium, SCIS of FIU.

University Minority Mentor Program (UMMP)

34. Ariana Chang, Engineering, Freshman, 2018

35. Julinna Villarta, Engineering, Freshman, 2019

Student Science Training Program (SSTP)

36. Srividya Vaishnavi Surampudi, Junior High School, Summer 2018. Now undergraduate in Stanford University.
37. Imaan Randhawa, Junior High School, Summer 2019
38. Aarushi Walia, Junior High School, Summer 2019. Received Offer from Emory University and University of Florida.

Thesis & Dissertation Committees

Ph.D. Committee Chair

1. Yao Xiao, BME, Spring 2020
2. Peng Liu, BME, Fall, 2020
3. Jianqiao Tian, BME, Spring 2022
4. Kyle B. See, BME, Spring 2023

MS Committee Chair

5. Skylar E. Stolte, BME, Spring 2020
6. Shreya Verma, BME, Spring 2021
7. Bhavin Soni, BME, Spring 2021

Honor Thesis Committee Chair

8. Skylar E. Stolte, BME, Spring 2019
9. Kyle B. See, BME, Spring 2019
10. Maximillian Diaz, BME, Spring 2020

PhD Dissertation Committee Member

11. Xiaoshuang Shi (Major advisor: Mingzhou Ding), Biomedical Engineering, University of Florida, Spring 2019
12. Ke Bo (Major advisor: Mingzhou Ding), Biomedical Engineering, University of Florida, Spring 2020
13. Guanhong Miao (Major Advisor: Samuel Wu), Biostatistics, Spring 2020
14. Anis Davoudi (Major advisor: Parisa Rashidi), Biomedical Engineering, University of Florida, Spring 2020
15. Camilo Valdes (Major advisor: Giri Narasimhan): Large Scale Human Microbiome Analytics, Florida International University, Spring 2020
16. Sudarat Tangnimitchok (Major advisor:Armando Barreto): Non-Intrusive Affective Assessment in the Circumplex Model from Pupil Diameter and Facial Expression Monitoring, Florida International University, Spring 2020
17. Terracino Brandon (Major advisor: Walter O'Dell), Medical Sciences, University of Florida, TBD
18. Trung Tran (Major advisor: Wesley Bolch), Medical Physics, University of Florida, TBD

19. Cameron Berg Kofler (Major advisor: Wesley Bolch), Medical Physics, University of Florida, TBD
20. William Moore (Major Advisor: S. "Bala" Balachandar), Aerospace Engineering, TBD
21. Zahra Razi (Major Advisor: Izabella Barreto), Medical Sciences, TBD
22. Jiaqi Zhang, Electrical and Computer Engineering, TBD

Master Committee Member

23. Gang Qu, Computer Science, University of Florida, Spring 2018

References

Tsuhan Chen (PhD advisor at Cornell University)
David E. Burr Professor of Engineering
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Ebenezer K. Hunt Professor
Biomedical Engineering, Electrical Engineering & Radiology and Biomedical Imaging
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