2019 The Eye and The Chip Accepted Posters

Last Name	First Name	Institution	Abstract Title
Akyürek	Muzaffer	ATLANTIS, Konya, Turkey	*Subretinal Prosthesis Design and Production*
Barry, Ph.D.	Michael	Second Sight Medical Products, Sylmar, California	*Single-electrode phosphene characteristics of the Orion™ Visual Cortical Prosthesis System*
Besrour	Marwan	Australia-Canada Bionic Vision Collaboration, Sherbrooke, Canada	*Artificially Intelligent Gaze Tracking System for Wireless Neurostimulation Retinal Implant*
Beyeler, Ph.D.	Michael	Vision + Cognition Group, University of Washington, Seattle, Washington	*Model-Based Recommendations for Optimal Surgical Placement of Epiretinal Implants*
Caspi, Ph.D.	Avi	Second Sight Medical Products. Sylmar, California	*Retinotopic to Spatiotopic Mapping in Blind Patient Implanted with Visual Cortical Neurostimulator*
Chen, M.Sci.	Zhijie "Charli	Stanford-Pixium, Stanford, California	*Recessed Electrodes Enable Subretinal Prosthesis with Cellular-Scale Pixels*
Dagnelie, Ph.D.	Gislin	Johns Hopkins University, Baltimore, Maryland	*Analyzing Prosthetic Visual Performance Using Signal Detection Theory (SDT)*
Demchinskiy, Ph.D.	Andrey	ANO "Laboratory Sensor-Tech", Moscow, Russia	*Ophthalmic VR-Simlator in Rehabilitation of Patients with Bionic Vision*
Elias, B.S.	Angela	Wayne State University and Henry Ford Health System, Detroit, Michigan	*Fabrication and Analysis of Iridium Oxide Based Microbump and Mushroom Geometry Electrode Designs*

Finn, B.S. Engineering	**Kathleen**	**Bioelectronic Vision Lab, University of Michigan, Ann Arbor, Michigan**	***A Patient-Specific Computational Framework for the Argus II Implant***
Ghaffari, M.S.	**Dorsa**	**Bioelectronic Vision Lab, University of Michigan, Ann Arbor, Michigan**	***Studying the Effect of Order and Duration Ratio of Pulse Polarities on Perception Shapes with Argus II Retinal Prosthesis***
Gogliettino, B.S.	**Alex**	**Stanford Artificial Retina Project, Stanford, California**	***Electrical Recording and Stimulation of RGCs in the Macaque Raphe at Cellular Resolution***
Goo, M.D., Ph.D.	**Yong Sook**	**SSADE Korean Retinal Prosthesis Group, Seoul, South Korea**	***Effect of a Post-Vitrectomy Injection of Sodium Iodate on Retinal Degeneration in Dogs***
Ho, B.Sc.	**Elton**	**Stanford-Pixium, Stanford, California**	***Prosthetic Vision and Grating Acuity under 50 um***
Ho, B.Sc.	**Elton**	**Stanford-Pixium, Stanford, California**	***Perceptual Performance on Complex Visual Tasks Using Simulated Prosthetic Vision with Augmented-Reality Glasses***
Idrees, M.Sc.	**Saad**	**University of Tuebingen, Tuebingen, Germany**	***Saccadic Suppression by Way of Retinal-Circuit image processing***
Ivzan, Ph.D.	**Nadav**	**Bar-Ilan University, Ramat-Gan, Israel**	***High Resolution Visual Cortex Retinotopy for Studying Prosthetic and Natural Vision***

Kartha, Ph.D.	**Arathy**	**Johns Hopkins University, Baltimore, Maryland**	***The Effect of a Distance Filtering Camera on Orientation and Size Discrimination Tasks in Argus II Users***
Kim, M.D., Ph.D.	**Seong-Woo**	**SSADE Korean Retinal Prosthesis Group, Seoul, South Korea**	***The Effects of Intravitreal Sodium Iodate Injection on Retinal Degeneration Following Vitrectomy in Canine***
Kuleshov	**Denis**	**ANO "Laboratory Sensor-Tech", Moscow, Russia**	***Ophthalmic VR-Simlator in Rehabilitation of Patients with Bionic Vision***
Kvansakul, Ph.D.	**Jessica**	**Bionic Vision Technologies, Melbourne, Australia**	***Sensory Substitution to Aid Training with Retinal Prostheses***
Lee, Ph.D.	**Seung Woo**	**Mass. General Hospital, Havard Medical School, Boston, Massachusetts**	***Optimization of Micro-Coil Designs for Selective Cortical Stimulation***
Liu, M.Sc.	**Yu**	**OptoVIS, Newcastle University, United Kingdom**	***OptoNeuro: Optogenetic Retinal Prosthesis***
Madugula, M.Sc.	**Sasidhar**	**Stanford Artifcial Retina Project, Stanford, California**	***Using Electrical Images to Predict Electrical Receptive Fields for Epiretinal Stimulation***
Masuda, Ph.D.	**Akira**	**Doshisha University, Kyoto, Japan**	***Cell-type Specific Cortical Stimulations by Red-shift Light with Lens Optics***
Oesch, Ph.D.	**Nicholas**	**University of California, California**	***Influence of Iridium Oxide Electrode Size on Stimulation Thresholds and Dynamic Range***

Polikanov, Ph.D.	**Dmitry**	**The Deaf-Blind Support Foundation "Con-nection", Moscow, Russia**	***Ophthalmic VR-Simlator in Rehabilitation of Patients with Bionic Vision***
Raghuram, M.S.	**Vineeth**	**Mass. General Hospital, Havard Medical School, Boston, Massachusetts**	***The Spike Initiation Zone in Mouse ON and OFF α Sustained RGCs Scales with Cell Size***
Rathbun, Ph.D.	**Daniel**	**Henry Ford Health System, Detroit, Michigan**	***MEA-Based Classification of Retinal Ganglion Cells for Bionic Vision***
Ryu, Ph.D.	**Sang Baek**	**Mass. General Hospital, Havard Medical School, Boston, Massachusetts**	***Spatially Confined Evoked Responses of Mouse Visual Cortex by Magnetic Stimulation Using Micro-coils***
Sadeghi, M.Sc.	**Roksana**	**Johns Hopkins University, Baltimore, Maryland**	***Seeing the Heat – Subject Performance Comparison Between Thermal and Visible Argus II Camera in Scenarios Approximating Real-Life***
Schaffrath, M.D.	**Kim**	**Epiret, University Hospital of Aachen, Aachen, Germany**	***Biocompatibility and Surgical Feasibility of Epiretinal Prostheses Extended by an Integrated Circuit (IC) Based Optical Capturing Via Photodiodes (OPTO-EPIRET)***
Shivdasani, Ph.D.	**Mohit**	**Bionic Vision Technologies, Melbourne, Australia**	***Cortical Activity Elicited by an Epiretinal Prosthesis Using Small Conductive Diamond Electrodes***

Tong, Ph.D.	**Wei**	**University of Melbourne, Melbourne, Australia**	***The Effects of Pulse Durations on the Spatial Resolution of Sub-Retinal Stimulation Using a Diamond-Based Retinal Prosthesis***
Weinreb, B.S.	**Samuel**	**Johns Hopkins University, Baltimore, Maryland**	***Phosphene Mapping for Intracortical Visual Prostheses***
Werginz, Ph.D.	**Paul**	**Vienna University of Technology, Vienna, Austria**	***Location-Dependent AIS Variations and Their Influence on Preferential Activation of RGC Subclasses***
Wuyyuru, M.S.	**Varalakshmi**	**Second Sight Medical Products, Sylmar, California**	***Single-Electrode Perceptual Thresholds for the Orion Visual Cortical Prosthesis System***