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Melissa D. Bailey
Professor
OD, MS, PhD: Ohio State
Angela M. Brown
Professor
PhD: University of Michigan
Colleen M. Cebulla
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Department of Ophthalmology
OD, MS: Ohio State
Heather Chandler
Associate Professor
PhD: Ohio State
Stacey S. Choi
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BOptom: University of Auckland
OD, MS: Ohio State
Andrew E. Dougherty
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Roanne E. Flom
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Jennifer Swingle Fogt
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Nicklaus F. Fogt
Professor
OD, MS, PhD: Ohio State
Andrew T.E. Hartwick
Associate Professor
PhD: Dalhousie University
Lisa A. Jones-Jordan
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MS, PhD: Ohio State
Marjean T. Kulp
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Nicky Y. Lai
Associate Professor of Clinical Optometry
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Delwin T. Lindsey
Professor
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PhD: University of Chicago
Jun Liu
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MS: Zhejiang University
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Catherine McDaniel
Associate Professor of Clinical Optometry
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G. Lynn Mitchell
Associate Professor
MAS: Ohio State
Donald O. Mutti
Professor
OD, PhD: UC Berkeley
Matthew P. Ohr
Associate Professor
Department of Ophthalmology
MD: Wright State University
Teng Leng Ooi
Professor
BOptom: University of New South Wales
PhD: University of Alabama, Birmingham
Andrew T.E. Hartwick
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OD, MS: University of Waterloo
PhD: Dalhousie University
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MS: Nankai University
PhD: University of Minnesota
Phillip Yuhas
Assistant Professor
OD, PhD: Ohio State
Karla Zadnik
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OD, PhD: UC Berkeley
Aaron B. Zimmerman
Professor of Clinical Optometry
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Dr. Heather Anderson’s research interests include pediatrics, binocular vision, and objective measurement of accommodation. In addition, Dr. Anderson conducts research with individuals who have Down syndrome with the goal of optimizing visual performance for this population. Her work with Down syndrome includes evaluation of objective spectacle prescribing strategies for refractive error, assessment of accommodation, and measurement of corneal anomalies and optical aberrations.

Dr. Melissa Bailey’s laboratory, Lab4Eyes (u.osu.edu/bailey.352), is devoted to helping children and adults see better and read better. Dr. Bailey has an active research program, studying cilary muscle development and how it relates to myopia, accommodative function, and academic achievement. She is also working to develop and commercialize new devices that will allow healthcare providers to make more accurate eye measurements and improve access to vision care for patients around the world.

Dr. Angela Brown studies color vision and infant visual development. She collaborates with Dr. Delwin Lindsey in a study of the perception and naming of colors by the Somali people who live in Columbus Ohio. Recently, Dr. Brown was the first person ever to measure the contrast sensitivity of newborn and premature infants, and she is working to develop her visual acuity and contrast sensitivity test for use in clinical infant vision testing worldwide.

While Dr. Heather Chandler's primary research focus examines the mechanisms by which cataracts and secondary cataracts form, there are several ongoing projects in her laboratory that pertain to protein regulation in the cornea. Research opportunities include: reducing secondary cataract formation through surgical or pharmacologic intervention and improving corneal wound healing. While Dr. Chandler’s research is laboratory-based, the overall goal of her lab is to take bench research findings and clinically apply them to the chairside.

Dr. Stacey Choi’s research interest is the application of adaptive optics (AO) retinal imaging systems to enhance understanding of disease mechanisms of retinal and optic nerve diseases. The AO technology allows us to visualize cellular structures in the retina and optic nerve in living eyes. We are particularly interested in identifying early biomarkers of these diseases from our in-vivo images and functional tests for earlier diagnosis, hence leading to better prognosis for the patients.

Dr. Nathan Dobie’s research interest is the design, construction and use of high resolution retinal imaging systems to study the structure and function of the human eye. This is achieved through the use of adaptive optics to overcome the ocular aberration allowing for the ability to observe single cells in-vivo. The overall aim is to use cell-based measurements of retinal health to predict disease at a much earlier stage than is currently possible clinically.

Dr. Bradley Dougherty conducts research to better our understanding of the impact of vision impairment and to evaluate rehabilitation approaches for patients with low vision. He is currently conducting a study in collaboration with the Department of Ophthalmology of the relationships among stress and depression, inflammation, and treatment outcomes in patients with age-related macular degeneration. Another research focus is road safety in drivers with low vision who use biopic telescopic spectacles.
optical systems, such as progressive addition lenses. The study of eye movements includes the design, fabrication, and measurement of freeform surfaces, and correct optical defects of the eye. Interests also include the characteristics of the eye, and novel techniques to design and evaluate the optical and visual performance of contact lens wear. This research is focused on understanding risk factors for myopia progression, evaluate the beneficial effects of time outdoors on myopia, and how best to address hyperopia in infants and children. Dr. Teng Leng Ooi uses psychophysical methods to study how surface, contour and top-down processing influence the sensorimotor mechanisms of stereopsis, binocular rivalry and space perception. The knowledge gained is used to advance clinical care of low and binocular vision. Dr. Deyue (Dion) Yu's research focuses on slow myopia progression with soft bifocal contact lenses. His primary research interest is the detection of neurodegenerative diseases in the retina and optic nerve. He is currently focused on using electrophysiology and imaging techniques to quantify the changes that occur in retinal neurons after repeated traumatic brain injuries in both rodents and humans. The ultimate goal of this line of research is to establish a general framework to guide the development of visual diagnostics and rehabilitation programs for visual disorders.

Dr. Jennifer Fogt's interests include anterior segment, tear layer research, contact lens and solution design, and visual aspects of human performance. Dr. Fogt is involved in research through the OSU Human Performance Consortium, the Scleral Lenses in Current Ophthalmic Practice Group and the Innovation in Vision and Eye care Research Group (IVERG). Her work with IVERG includes self-designed studies, working with industry to design clinical studies, and implementing multi-center clinical trials at OSUCO.

In Dr. Nick Fogt's laboratory, eye movements and head movements are monitored with a variety of devices. The eye movement studies are focused in two main areas. The first area involves eye and head movement in sports. The second area of study looks at the neural pathways involved in coordination of the two eyes. Problems with eye movement coordination between the two eyes are common clinically.

Signals travel from the eye to the brain via retinal ganglion cells (RGCs), and the anatomy and physiology of these neurons are the focus of Dr. Andy Hartwick's research investigations. He is particularly interested in studying the function of a subset of RGCs that capture light and directly convert it into an electrical signal. In addition, he directs clinical studies that examine the effects of conditions such as glaucoma and traumatic brain injury on RGC photoreception.

Dr. Lisa Jones-Jordan is responsible for the data coordinating center for the Bifocals In Nearsighted Kids (BLINK) Study. She is responsible for the data collected during the study, as well as the statistical analyses that are performed from this clinical trial. In addition, she manages the data collection of smaller contact lens and Meibomian gland dysfunction studies.

Dr. Marjean Kulp's research interests lie in the areas of pediatrics, binocular vision, and refractive error. Her research experience includes serving as a Principal Investigator of the Vision in Preschoolers-Hyperopia in Preschoolers Study and as principal investigator of the OSU College of Optometry clinical center for the Convergence Insufficiency Treatment Trial studies, Pediatric Eye Disease Investigator Group Studies (e.g. Amblyopia Treatment Studies), Vision in Preschoolers study, and pirenzepine for myopia control.

Ms. Lynn Mitchell serves as Director of the Data Coordinating Center for research studies in binocular vision (Convergence Insufficiency Treatment Trial – Attention and Reading Trial) and contact lenses (Contact Lens Assessment in Youth). In addition, Ms. Mitchell serves as a collaborator for studies in accommodative dysfunction, myopia, and vision testing for children with Autism Spectrum Disorder. She also collaborates with ophthalmic researchers within the college and outside OSU in the areas of study design and analysis.

The focus of Dr. Don Mutti's research is to understand the optical and structural development of the eye in order to learn the causes of refractive errors like myopia and hyperopia. The aims of current projects are to explore the basis of the beneficial effects of time outdoors on myopia, understand risk factors for myopia progression, evaluate the effectiveness of treatments to slow myopia progression, and how best to address hyperopia in infants and children.

Dr. Philip Yuh's primary research interest is the detection of neurodegenerative diseases in the retina and optic nerve. He is currently focused on using electrophysiology and imaging techniques to quantify the changes that occur in retinal neurons after repeated traumatic brain injuries in both rodents and humans. The ultimate goal of this line of research is to establish the retina as a site for the identification of biomarkers of traumatic brain injury.

Dr. Aaron Zimmerman's research interests involve sports vision and adverse events with contact lens wear. The majority of the sports vision research has been conducted using eye and head movement recording devices and assessing how those coordinate with each other while trying to intercept a baseball. At Ohio State we have an excellent patient population for studying adverse events related to contact lens wear. We are continuing to perform studies evaluating corneal conditions.