A Person not just a Patient

“The ophthalmologists were kind, respectful, interested in the patient before them because they saw the patient as a person that they wanted to help. This is the culture of the Eye Institute.”

Joan Bergy, Community Advisory Board
2012 WAS A TERRIFIC YEAR for the Department of Ophthalmology and the UW Medicine Eye Institute. Our Department continues to grow and thrive in our service missions of clinical care, education, and research.

Four new faculty members joined us this year. Eissa Hanna, MD joined our faculty as Assistant Professor following his ophthalmology residency at Penn State to become our new Director of Trauma and Consult Services at Harborview Medical Center. Dr. Hanna also cares for comprehensive ophthalmology patients at the Eye Institute. Bryan Lee, MD, JD joined the Department and Eye Institute as Assistant Professor, having completed his residency at Johns Hopkins and his fellowship in cornea and external diseases with Minnesota Eye Consultants. Dr. Lee also holds a legal degree from Harvard Law School, and has strong interests in policy research. Kristina Tarczy-Hornach, MD, DPhil joined our pediatric ophthalmology group as Associate Professor. Dr. Tarczy-Hornach, who holds a doctorate in neurosciences from Oxford as well as an MD from UCSF, completed her pediatric ophthalmology fellowship training at Johns Hopkins, and has served on faculty at University of Southern California. And Grace Chang MD, PhD, joined our faculty as a retina specialist, practicing at the Puget Sound VA Medical Center. Dr. Chang holds an MD degree from Stanford and PhD from Caltech. She completed her ophthalmology residency and retina fellowship at Harvard prior to joining our department.

These new hires join a vibrant and diverse faculty with expertise across the range of ophthalmic conditions, including retinal disease, corneal and surface disease, glaucoma, neuro-ophthalmology, oculoplastics, pediatric ophthalmology, cataract, ocular inflammatory disease, ocular oncology, and hereditary eye disease. For the fifth straight year, our clinical activity continued to grow, with over 45,000 patient visits this year across our sites and several thousand surgeries. The Eye Institute continues to have ‘Top Box’ patient satisfaction scores and outstanding outcomes.
In the education realm, we graduated a terrific class of four new ophthalmologists in the spring, sending several to excellent fellowships around the nation. Our four new first years joined us in the summer, bringing new energy and enthusiasm to the department. This will be the last four-person residency class; beginning in 2013, we will have five residents per year. We also expanded our fellowship offerings this year, matching excellent candidates in our re-opened retina fellowship and in our new pediatric ophthalmology fellowship.

The Department had unparalleled scholarly productivity this year, publishing over 50 papers in areas spanning the ophthalmic and basic science literature. The Department had unprecedented grant funding, with over $5 million dollars in Federal and industry-sponsored research. Several of our faculty including Mike Mustari, PhD, and Ricky Wang, PhD, won prestigious awards from Research to Prevent Blindness.

Our Community Advisory Board began its second year, and continues to grow and help support our mission of eliminating blinding disease. With their support and that of many donors, we continue to advance the frontiers of clinical care, education, and research in eye disease.
Patient Care

THE MISSION OF THE DEPARTMENT of Ophthalmology at the University of Washington is to eliminate suffering from eye disease, in our community and world-wide. We do so by practicing the state-of-the-art in ophthalmology, extending the state through rigorous scientific research, and by sharing our knowledge with our students, our colleagues, and our community.

This year our Eye Institute providers saw 22,000 patients and performed approximately 1500 surgeries. Eye Institute physicians include nationally renowned leaders in ophthalmology, with many listed in the Best Doctors in America. As the region’s premier eye and vision science center, the Eye Institute encompasses all specialties, including retina, cornea, glaucoma, and oculoplastics with access to the latest treatments that provide patients with the best outcomes, all housed in a state-of-the-art facility.

Full subspecialty coverage includes ocular cancer, ocular inflammatory disease, and hereditary eye disease.
Spotlight On Trauma Services

THE HARBORVIEW OPHTHALMOLOGY CONSULT SERVICE provides us a unique and wonderful opportunity to take care of our most ill patients admitted from the local community and five of our neighboring states. We see people in their most fragile moment with life threatening disease affecting their vision or an equally devastating threat of blindness from an ocular condition. This provides our physicians the gratifying opportunity to heal and our educators the necessary platform to pass on their expertise.

“
In every patient I see a family member requiring my best and most compassionate care.

I always start with a careful ear and continue with an open mind.”

Eissa Hanna, MD
Director of Consult Services
Harborview Medical Center’s 4West Clinic

Comprehensive patient care also extends to trauma and injury. Harborview Medical Center is one of the nation’s leading trauma hospitals and the only Level I adult and pediatric trauma and burn center serving Washington, Wyoming, Alaska, Montana and Idaho (WWAMI).

The Eye Institute is the home of the region’s only dedicated ophthalmological trauma team at Harborview Medical Center.

An Airlift Northwest helicopter sits on the pad at Harborview Medical Center. Photo by Clare McLean.
"To be a good doctor, it is imperative to understand each patient’s unique life circumstances, to remain nonjudgmental, to draw upon one’s own life experiences and sensibilities in order to communicate effectively, and to work with the patient toward a treatment goal.

Holly Chang, M.D.

SPECIALISTS AT THE UW MEDICINE EYE INSTITUTE employ their expertise in the pursuit of eradicating eye disease and repair associated with trauma. Oculofacial plastic surgeons have additional training in plastic and reconstructive surgery. Doctors Jian Amadi and Holly Chang are oculofacial plastic surgeons who work with cases involving trauma such as orbital injuries and burns. They also perform elective procedures such as a brow lift or face lift, utilizing their understanding of the face’s layers of skin, muscle, fat and bone, and their relationship.

"The same skills that make a great ocular trauma surgeon also make a great cosmetic surgeon: an appreciation of anatomy, attention to detail and compassionate care."

AJ Amadi, M.D.
Spotlight on Cornea and Refractive

Cornea eye surgery can reduce or cure common vision disorders such as myopia, hyperopia and astigmatism, as well as degenerative disorders like keratoconus.

Dr. Tueng Shen is an associate professor of Ophthalmology at the University of Washington and Director of the Refractive Surgery center at UW Medical Center. Dr. Shen specializes in refractive surgery, cataract surgeries, and medical and surgical management of corneal disorders. Dr. Shen established this region’s artificial cornea transplant program to treat severe corneal blindness.

Dr. Shen’s goal is to help patients achieve their best visual potential. Treating end-stage corneal blindness patients through the UW artificial cornea program informs her lab research in order to offer better clinical solutions for patients. Her research group focuses on developing innovative solutions to treating global blindness by leveraging technological advancements in polymer sciences, microelectronics and modern imaging techniques.

With colleagues in the College of Engineering, she continues work on developing the next generation of artificial cornea using advanced polymer research, microelectronic sensing technology for continuous wireless monitoring of the intraocular pressure, and a controlled intra-ocular drug delivery system to prevent post-operative infections with the goal of creating an artificial cornea that can be used world-wide.

Photo: Clare McClure/UW Medicine
Research

VISION RESEARCH IS A CRITICAL PART of the Department of Ophthalmology's mission. Many of the Eye Institute's clinicians are scientists who work to understand the healthy and diseased eye, with the ultimate goal of eliminating eye disease. Researchers at the University of Washington hold more than 40 National Institutes of Health grants related to vision, making it one of the country's leading institutions engaged in vision research.

Eye Institute researchers collaborate with colleagues who are experts in fields as diverse as engineering, psychology, physiology and biophysics, biological structure and genomics.

For 34 consecutive years, the University of Washington has held a National Eye Institute Vision Core Grant, which is administered through the Department of Ophthalmology. The Core facilities bring together researchers from across the university.

State-of-the-art OCT system enables the visualization of detailed microstructures within the retina

Ruikang Wang, Ph.D., Professor of Bioengineering and Adjunct Professor in the Department of Ophthalmology, received an inaugural $100,000 Research to Prevent Blindness (RPB) Innovative Ophthalmic Research Award. The award, established in 2011, provides flexible funding to basic scientists who are actively engaged in research in collaboration with departments of ophthalmology, with the goal of understanding the visual system and the diseases that compromise its function.

Dr. Wang’s laboratory is expert in the technique of optical coherence tomography (OCT). Initially developed at MIT in the 1990’s, OCT is a technique that allows visualization of ocular structures with the resolution of a microscope section, all done non-invasively with invisible, infrared light. OCT has become a highly useful diagnostic technique, used in management of most patients with macular degeneration, glaucoma, and diabetic retinopathy.

Up until now, OCT has been a ‘static technique’. Current commercial OCT scanners can produce a few hundred ‘scan lines’ per second. Dr. Wang’s laboratory has developed new scanners that can acquire images 10 to 100 times more quickly. Called optical micro angiography (OMAG), this technique allows the OCT device to compare, for the first time, the images from the high and low flow portions of the pulse from each heartbeat. By subtracting these images, the new OCT can produce a detailed image of the blood flow in the retina, down to the level of the individual capillary. Previously, to get such images, physicians had to inject dyes into the veins of patients and rapidly photograph the dye going
through the retinal vasculature. Only one group of vessels could be studied at a time. With the new technique, according to Dr. Wang, three dimensional visualization at the capillary level allows the whole retinal vascular to be imaged, at unprecedented resolution.

“The potential for this technique to improve patient care is tremendous”, says Russell Van Gelder, MD, PhD, Boyd K. Bucey Memorial Chair and Professor in the Department of Ophthalmology. “This major advance in OCT will simultaneously improve our ability to see the blood flow in the retina, while removing the need to expose patients to intravenous dyes. I anticipate this technique, once commercialized, will quickly become standard of care for many patients with eye disease world-wide.”
COLOR VISION CENTER OF EXCELLENCE: ONE-OF-A-KIND CENTER FOR PEOPLE WITH COLOR BLINDNESS

Color blindness is the most common inherited vision disorder in the world. In the Puget Sound area alone over 100,000 men (and several thousand women) are affected by some form of color vision deficiency. While for many color blindness is a nuisance, for some individuals having perfect color vision is essential. Pilots, law enforcement officers, firefighters, and soldiers rely on normal color vision to do their jobs. Entry into these fields frequently requires passing an array of color vision tests. Until now, there has been no single facility that can perform the full breadth of color vision testing in the Northwest. With the opening of the UW Medicine Eye Institute Color Vision Center of Excellence at University of Washington Medical Center, such a center is now available in Washington.

The opening of the Center is prompted by the genetic work conducted by Department of Ophthalmology researchers, Drs. Jay and Maureen Neitz. Jay is the Bishop Professor of Ophthalmology, and Maureen the Ray Hill Professor of Ophthalmology. The Neitzes have devoted their professional lives to the understanding of color vision, and have identified many of the genetic defects leading to color blindness. The Color Vision Center of Excellence offers a comprehensive series of color vision tests, including genetic testing. The center also has the only anomaloscope in the Pacific Northwest. Most people may be more familiar with the test showing dotted pictures (Ishihara plate) but the anomaloscope provides the most accurate means of testing the degree of color blindness.

The Center is located at the UW Medical Center. Parisa Taravati MD Assistant Professor with the department of Ophthalmology, will oversee the center and provide interpretation of about results. According to Dr. Taravati, although while there is no treatment available now, testing at the clinic may help qualify someone for a job formerly not thought possible. However, in the foreseeable future, there may be hope for people with color blindness. Work by the Neitzes has shown that gene therapy may be able to cure color blindness. As this technology develops, the Center will be at the forefront of bringing new treatments to the color blind population.

Hardy-Rand-Rittler Plates

Jay Neitz, PhD, Bishop Professor and Maureen Neitz, PhD, Ray Hill Professor, Ophthalmology
AN ADVANCE IN VISION RESTORATION

Researchers from the Department of Ophthalmology in collaboration with scientists from University of California, Berkeley, and the University of Munich, have identified a chemical that temporarily restores some sight to blind animals.

The chemical, called AAQ, is able to make cells in the eye that are not normally responsive to light photosensitive. The cells include the neurons of the inner part of the retina, which are spared in retinal degenerations like macular degeneration and retinitis pigmentosa.

The UW team, including resident Jack Sychev, MD, and postdoctoral fellow Joe Nemargut, PhD, working in the laboratory of Ophthalmology Professor Russell N. Van Gelder, MD, PhD (Boyd K. Bucey Chair) showed that AAQ could restore light sensitivity to retinas from blind mice in tissue culture. The group then showed that small amounts of the chemical injected into the eyes of mice with genetic retinal degeneration restored pupillary light responses and behavioral responses to light. This work was published this summer in the journal *Neuron*.

‘This is an exciting advance in the field of vision restoration,” says Dr. Van Gelder. “The ‘chemical reanimation’ approach now joins electronic chips, stem cell therapies, and gene therapy as a way to try to treat blindness from retinal degeneration. We still need to show these compounds are safe, and that they will work in people the way they do in mice. But this is an exciting time to be working in this field.”
Education

RESIDENT AND FELLOW PHYSICIANS

The University of Washington is the training ground for future ophthalmologists for our region. Currently, the Department of Ophthalmology admits four residents each year to its three-year residency program, with almost 400 applicants for these positions. In the coming year the department will increase its number of resident positions to five, helping to serve the School of Medicine’s extensive service area as the sole academic ophthalmology program for the 11.5 million people living in the five WWAMI states.

The Department of Ophthalmology has also expanded its fellowship training program to include two year fellowships in oculoplastics and retina, and a new one year fellowship in pediatrics ophthalmology. These fellowships allow trainees to further develop their skills in these subspecialty areas.

From Left to Right: Divakar Gupta R3, Sheila Goyal R3, Thuy Doan R3, Naomi Lundstrom-Odell R3, Paramdeep Mand R4, Deana Choi R4, Joe Sheehan R4, Oliver Yeh R2, Rebecca Lindsay R2, Kathleen Williamson R2, Jack Sychev R2
Not in Photo: Emile Sharifi R4
Community Advisory Board

Claire Angel
Claire has been in private practice focusing on Corneal Disease for 16 years and joined the faculty at UW Eye Institute in April 2012. She is the Goodwill Ambassador for Sightlife Corneal Eye Bank and has travelled to India twice with Sightlife to help them build infrastructure for corneal eye banking around India.

Mark Bathum
Mark was born and raised in Seattle. He graduated from the University of Washington in 1981 and received his MBA from UCLA in 1986. Mark has worked for a number of large and small firms in marketing and management and has lived and worked in Europe, Los Angeles, Portland, Detroit and Seattle. Mark was diagnosed with the most common form of dominant retinitis pigmentosa in 1986. After a 30 year hiatus from alpine ski racing, Mark began competing in visually impaired ski racing in 2008 and won a silver medal in the Men’s Downhill at the 2010 Vancouver Paralympics.

Barbara G. Bedell
Barbara lives on Orcas Island. She holds a Bachelor of Arts degree from the University of Iowa and a Master's Degree in English Literature with a concentration in Medieval Literature from the University of South Dakota. She taught for over twenty years at Morningside College in Sioux City, Iowa, before moving to the Northwest. Barbara has served on numerous boards on Orcas Island and is currently chair of the Board of Fire Commissioners for San Juan County Fire Protection District #2 and remains active with the Orcas Medical Foundation. Barbara supports the University of Washington's Eye Institute in numerous ways, including outreach programs on Orcas Island.

Joan Bergy
Joan holds a B.S. from Michigan State University, as well as an MPA and Executive MBA Certificate from the University of Washington. Some of her key positions have included consumer education specialist at the Food and Drug Administration; director of the Consumer Product Safety Commission; and consumer advisor, U.S. Section, International Fisheries Commission (U.S., Canada, Japan).

Kristine I. Bueche (Tina)
Originally from upstate New York, Tina received her Master of Science in counseling from Wright State University and followed with post graduate study in experimental psychology at the University of Tennessee, Knoxville. She worked for General Electric Company in Human Resources and Organization Development, and subsequently moved to Seattle to work with Quantum Medical Systems in Issaquah, Washington. Tina has maintained a significant level of community involvement with numerous organizations, including the Seattle Neighborhood Group, the Pioneer Square Community Council, the King County Jail Citizens Advisory Committee, Metropolitan Improvement District, Police Chief Selection Committee, Junior League of Seattle, Business Volunteers for the Arts, Pioneer Square Preservation Board, Forgotten Works, and the Kingdome Task Force.
Kevin Callaghan
Kevin is an investment manager at Badgley Phelps, specializing in estates, trusts, family partnerships, and other topics relating to wealth management in a complex taxable environment. Kevin is a past trustee of the ACT Theatre, The Overlake School, Bertschi School, and University Preparatory Academy. He is currently involved with numerous charitable organizations, including the Museum of Flight, the John Graham Foundation, and the Bishop Eye Research Foundation. He is a native of Seattle, where he lives with his wife and three children.

Dennis Evans
Dennis was born in Yakima, Wash. in 1946. He studied chemistry at the University of Washington and went on to get a BFA in ceramics and an MFA in design from UW. His artwork is included in many major museums and public corporation collections, including the Museum of Modern Art and the Metropolitan Museum of Art in New York City. Evans is also a book and print publisher. He has published five limited edition suites of prints in collaboration with poets and other artists. He has worked as a performance and installation artist, as well as a painter, and has been a teacher and mentor to many young artists. Dennis’s artwork is on display in the UW Medicine Eye Institute and in the Department of Ophthalmology's front office.

Leigh Fenneman
Leigh originates from the suburbs of Washington, D.C. He attended Miami University, where he received a B.S. in Applied Science with specializations in Mathematics and Computer Science. Leigh has a 36 year career with the U.S. Navy, commissioned as an Ensign and retired as a Captain. He spent the early part of his civilian career in various engineering and management positions for several defense contractors and moved to Boeing in 1984. While at Boeing he held positions ranging from Lead Engineer for Radar Development to Senior Manager of Information Technology.

Dr. Melvin and Nanette Freeman
Melvin Freeman, M.D., FACS, a Seattle native, is a graduate of the University of Washington School of Medicine. He completed his training in ophthalmology at Barnes Hospital/Washington University and Massachusetts Eye and Ear Infirmary/ Harvard Medical School. He was in private practice in Seattle and was a volunteer clinical professor of ophthalmology at the University of Washington. He has served as president of three national medical organizations, a local religious institution, and as Mayor Pro-Tem and Councilperson for his local community. Nanette Freeman, a Wheeling, West Virginia native, is a retired certified public accountant, having worked for national and local accounting firms, and in her own private accounting practice in Bellevue. Her professional interests have been in financial, tax and estate strategies.
Dan Hunter
Dan and his wife, Irene, have been very impressed with the quality of care that they have received as patients at UW Medicine’s Eye Institute. After a successful cataract surgery, Dan is looking forward to taking the test for his driver’s license, which he hopes to pass without his glasses. They are grateful to Dr. Russ Van Gelder and the staff for being so helpful and knowledgeable.

Irene W. Hunter
Before treatment at UW Medicine’s Eye Institute, Irene’s vision was 20/200 and after surgery it is now 20/40. She has also had cataract surgeries that were very successful. At age 89, Irene has seen incredible changes in eye care during her lifetime and is excited to see more on the horizon.

Camille Jassny
Camille and her husband, David, have two wonderful sons as well as a terrific guide dog, Brietta. Camille has had chronic eye disease her whole life and lost her sight three years ago. Because of this, she has always been interested in research, particularly involving stem cells. For her and others like her in the non-profit organization she helped start, Vision Loss Connections, the research being done at UW and elsewhere is their only opportunity for sight. Loss of sight has not held her back from being an active person and her goal is to help others live full and meaningful lives.

Jack Jolley
Jack is a native Seattlite, born on Capitol Hill in 1958. He was educated in local private and public schools, graduating from high school in 1976 and from the University of Washington in 1980 with a B.A. degree in accounting. Jack followed his dream of working in New York City and then London with various positions of financial and management responsibility. Returning to Seattle after 10 years, Jack took a position with Microsoft Corp., eventually rising to the position of assistant treasurer, and later started a division of Quellos, a local investment management firm. Jack is a supporter of the Whidbey Camano Land Trust, Seattle Arts & Lectures, Hedgebrook, the Museum of Natural History, and campaigned for Port Commissioner Position #4 in 2005. Jack is currently a strategic consultant and advisor to Filament, LLC and serves as a Mayoral appointee to the City of Seattle Audit Committee.

Christopher & Alida Latham
Christopher is retired from a 40 year career in information systems management and consulting. His work ranged from national financial institutions to, finally, the University of Washington. He remains active as a frequent world traveler who is also a supporter of both local and international non-profit organizations. He holds a B.A. in anthropology and graduate study in computer science.

In 1969, Alida bought a Pentax Spotmatic camera for her first trip to East Africa. The camera gave her a way to share the excitement of her experience with others. Driven by an
interest in collecting tribal art and artifacts, she and her husband have traveled extensively in remote regions of the world. As a result, she documented many peoples and places, and many of her images have been used as stock photography. She went on to pursue degrees in ceramics, theater design and, eventually, a BFA in metalsmithing from the University of Washington. Currently, she is associated with Danita Delimont Stock Photography.

Nancy Mee
Nancy was born in the San Francisco bay area and attended the University of Washington, where she earned a BFA in printmaking in 1974. She has studied etching at Atelier 17 and glass fusing and slumping at the Pilchuck Glass School. Nancy’s sculptures incorporate a variety of materials including glass, forged steel, stone and photography. She is shown in several galleries across the United States, and is represented in many public and private collections nationally and internationally.

Richard P. Mills, M.D., MPH
Dr. Mills is a graduate of Yale University School of Medicine and the University of Washington ophthalmology residency and School of Public Health. He was professor and acting chair of ophthalmology at UW and chair at the University of Kentucky before entering private practice of glaucoma in Seattle in 2003. He is a past-president of both the Washington State and American Academy of Ophthalmology (AAO), emeritus director of the American Board of Ophthalmology, past secretary of the American Glaucoma Society, and former trustee of the Washington State Medical Association.
He is currently chair of EyeCare America, the public service program of the AAO, and is chief medical editor of EyeNet, the clinical newsmagazine of the AAO.

Fred Minifie
Fred Minifie is professor emeritus of the Speech and Hearing Sciences Department at the University of Washington where he served as department chairman. He is currently developing a multimedia textbook on Speech Production for use with tablet. He has been an active member of the University Lions Club for 34 years and currently serves as Zone Chairman for the Seattle area Lions Clubs and program chairman for the University Lions Club. For the past four years he has chaired Lions CARE programs that raise money to support needy families in Bolivia and in Ecuador.

Fred presented two Helen Keller Vision Awards at the September 2012 “Gained in Translation” conference in Vancouver, British Columbia. These awards recognize outstanding contributions to the advancement of knowledge in vision research at the University of Washington and the University of British Columbia. In October 2012, Fred also helped launch a new program to enable donors to contribute to vision research by becoming “Helen Keller crusaders in the crusade against darkness.” The program provides Helen Keller crusader pins for donations of $100, $500, or $1,000. This program is already receiving donations to support vision research and placing the donations in a Lions 501(c)3 charitable foundation.

Ernie J. Pearson
Ernie is the chairman and founder of Lee & Associates - Central Valley, Inc., which specializes in land, industrial sales and leasing, and tenant representation. He became aware of the Eye Institute when he was diagnosed with macular degeneration two years ago. Over the past 20 years, he has experienced cataracts and a detached retina and was well aware of the progress within the medical community to preserve sight in individuals. He joined the Community Advisory Board for the purpose of helping the Eye Institute become more widely known and supported throughout the community.
Suzanne Ragen
Suzanne was born in Czechoslovakia and came to Oregon at the age of two. She graduated from Mills College and has completed coursework at the University of Washington for a master’s degree in art history. Suzanne is a docent at the Seattle Art Museum and is currently the Chairman of the ACCESS SAM Program that trains docents to tour people with vision and hearing loss. The ACCESS SAM Programs offers regular tours to organizations such as Vision Loss Connections and the Hearing, Speech, and Deafness Center. She has also served on UW Medicine’s Campaign Cabinet.

Robert J. Stevens
Robert J. Stevens retired from Novartis/Alcon Laboratories at the end of March 2012, just short of 35 years of service. For the last 23 years he was head of research and design for surgical products in the field of ophthalmology. During this time, the technology Alcon brought to the market significantly impacted the practice of medicine. Robert graduated from the University of Washington in 1975 with a master’s in clinical microbiology. His early work experience was at Harborview Medical Center as a microbiologist. Originally from Seattle, Robert migrated to Texas, and is now happy to be back home.

Don Sackrider
Don's interest in eye research started with Dr. Richard Munsen's treatment of his macular problems. In his career as an airline pilot he was required to pass a physical exam twice yearly, which gave him good reason to pay attention to his health, and especially his eyes. Don now spends his winters in Florida and summers on Whidbey Island. He enjoys spending as much time outdoors as possible.
Our Providers

Comprehensive

Eissa Hanna, MD
Dr. Hanna is an Assistant Professor of Ophthalmology at the University of Washington. He also serves as the Director of Consult Services for Harborview Medical Center's 4West Clinic.

Education History
University of California, Davis Medical School
Penn State University Residency
Harvard University Fellowship, Ophthalmic Pathology

Patient Care philosophy
He believes that the patient-physician relationship is built on trust and maintained through patient education. Ultimately, it is both the patient and the physician who work together for the desired outcome.

Scope of Care
As a comprehensive ophthalmologist, Dr. Hanna treats a wide variety of conditions that affect the eye and eyelids.

Deborah L. Lam, MD
Dr. Lam is a comprehensive ophthalmologist and UW assistant professor. She is an attending physician at the Veterans Affairs Puget Sound Healthcare system.

Education
BA – Northwestern University, Evanston, IL
MD - Northwestern University, Evanston, IL
Residency - University of Washington Hospitals, Seattle, WA
Fellowship Uveitis – University of Washington Hospitals, Seattle, WA

Patient Care Philosophy
She believes the foundation of the patient-physician relationship is communication. Her care is focused on the needs of her patients and their families.

Scope of Care
Diagnosis and treatment of a comprehensive range of eye conditions, including such entities as cataract, glaucoma, diabetic retinopathy, macular degeneration, ocular surface diseases and eye trauma.

Jennifer J. Lee, MD
Dr. Lee is a UW clinical instructor of ophthalmology and an attending physician of ophthalmic surgery at 4 West Clinic at Harborview Medical Center.

Education
BS - Psychological Services, Northwestern University, Evanston, IL
MD - Northwestern University, Evanston, IL
Residency - University of Iowa, Iowa City, IA
International Fellow - Kim Eye Hospital, Seoul, Korea

Patient Care Philosophy
To treat each patient as if he or she were a best friend asking for help.

Scope of Care
Comprehensive medical care of the eye and surgical care of the anterior segment.

Thelma Leveque, MD, MPH
Dr. Leveque is a board certified comprehensive ophthalmologist and an attending physician at the UW Eye Institute at Harborview Medical Center. Dr. Leveque is a UW acting assistant professor. In keeping with her belief that a career in medicine requires a lifetime of learning, this year she is pursuing additional training in uveitis with the department chair.

Education
BA - Amherst College
MD - Duke University School of Medicine
M.PH. - University of North Carolina
Residency - University of Michigan

Patient Care Philosophy
Patient education and participation in care is vital to eye health. "I will do everything I can to explain your eye condition in a way that makes sense to you. There is no such thing as a dumb question!"

Scope of Care
All straightforward and complex medical conditions of the eye, including dry eye and related diseases, glaucoma, mild to moderate macular degeneration, ocular health in systemic disease (including diabetes), and trauma.
Comprehensive, cont.

Parisa Taravati, MD
Dr. Taravati is an assistant professor and an attending physician at the UW Medical Center. She is a clinician educator. Her primary clinical interest is comprehensive ophthalmology.

Education
BS - University of Iowa
MD – University of Iowa
Residency – University of Iowa Hospitals & Clinics

Patient Care Philosophy
She believes in educating her patients on their eye conditions and allowing them to actively participate in their medical care.

Scope of Care
Dr. Taravati is a comprehensive ophthalmologist who treats patients through both medical and surgical procedures, as well as in-office exams.

Jennifer T. Yu, MD, PhD
Dr. Yu is a UW clinical assistant professor and an attending physician at 4 West Clinic at Harborview Medical Center. Her clinical interest is in comprehensive eye care including dry eyes, blepharitis, cataracts and cataract surgery, glaucoma, diabetes in the eye and macular degeneration.

Education
BS - University of Michigan, Ann Arbor, MI
PhD - Washington University School of Medicine
MD - Washington University School of Medicine
Residency - Washington University School of Medicine

Patient Care Philosophy
She believes good patient care starts with listening to the patient and addressing his or her concerns. She also believes that health care is a partnership between the physician and the patient. This involves patient education and helping the patient make informed decisions.

Scope Of Care
She is a comprehensive ophthalmologist who diagnoses and treats a wide range of eye conditions such as dry eye, cataracts and glaucoma.

Cornea and External Disease

Bryan S. Lee, MD, JD
Dr. Lee is an Assistant Professor in the Department of Ophthalmology at UW. He specializes in cornea, cataract, and refractive surgery and has research interests in health policy.

Education History
BS - Harvard College
JS - Harvard Law School
MD - Washington University in St. Louis
Residency - Wilmer Eye Institute, Johns Hopkins Hospital
Fellowship - Anterior Segment - Minnesota Eye Consultants

Patient Care Philosophy
Dr. Lee believes in patient education and shared understanding of patient goals. He focuses on being empathetic and clear in his explanations and recommendations.

Scope of Care
Dr. Lee specializes in cataract, cornea, and refractive surgery.

Tueng T. Shen, MD
Dr. Shen is a UW associate professor of ophthalmology and an adjunct in bioengineering. She specializes in refractive surgery, cataract surgeries and medical and surgical management of corneal disorders. She also established this region’s artificial cornea transplant program to treat severe corneal blindness.

Education
BA - Wellesley College and Oxford University
PhD - Massachusetts Institute of Technology
MD - Harvard Medical School
Residency – Massachusetts Eye & Ear Infirmary, Harvard
Fellowship – Cornea/Refractive - Moran Eye Center

Patient Care Philosophy
Dr. Shen is committed to delivering the best eye care possible by providing the most advanced treatment options and by developing better technologies to restore vision for patients with challenging corneal conditions. She strongly believes that patients
Cornea and External Disease, cont. Glaucoma

deserve a physician who listens, keeps them well-informed and is a partner in accomplishing the best treatment plan customized to each patient’s needs.

Scope Of Care
Refractive surgeries (laser and non-laser surgeries) to minimize refractive errors and reduce dependence on glasses or contact lenses, cataract surgeries, corneal surgeries (PKP, DSEK, artificial cornea surgeries, conjunctival surgeries, stem cell transplant surgeries) and medical management of all areas of corneal diseases.

Michael C. Wu, MD
Dr. Wu is an associate professor of ophthalmology and an attending physician at the UW Eye Institute at Harborview Medical Center. He also serves as the director of medical student education in ophthalmology at the UW. As a cornea specialist, Dr. Wu has advanced training in the surgical and medical management of corneal diseases, as well as in refractive surgery.

Education:
AB - Molecular Biology - Princeton University
MD - University of Texas Southwestern Medical School
Residency - Georgetown University Medical Center
Fellowship - Cornea, External Disease, and Refractive Surgery - Doheny Eye Institute

Patient Care Philosophy
To provide caring, thorough, attentive, and detailed treatment to each patient, utilizing current treatment techniques, sound medical knowledge, and advanced surgical procedures.

Scope Of Care
Ophthalmology, with subspecialty practice interest in cataract surgery, corneal transplantation, corneal surgeries, and diseases of the cornea.

Philip P. Chen, MD
Dr. Chen is a UW professor and chief of ophthalmology at UW Medical Center and Harborview Medical Center.

Education
BS - Stanford University
MD - Yale University
Residency - Doheny Eye Institute
Fellowship in Glaucoma - Bascom Palmer Eye Institute

Patient Care Philosophy
Dr. Chen’s professional passion is to prevent blindness caused by glaucoma.

Scope Of Care
All types of glaucoma and cataracts, particularly complex glaucoma and cataract surgery.

Raghu Mudumbai, MD
Dr. Mudumbai is an UW associate professor of ophthalmology and an attending physician at the UW Medicine Eye Institute at Harborview Medical Center. Dr. Mudumbai specializes in glaucoma, neuro-ophthalmology, and treats patients with multiple sclerosis.

Education
BA - City University of New York
MD - State University of New York
Residency - State University of New York Health Science Center
Fellowship in Glaucoma – New York Eye and Ear Infirmary
Fellowship in Neuro-Ophthalmology - University of Minnesota

Patient Care Philosophy
He takes a patient-centered approach and is excited to be practicing at a time when recent advances in multiple sclerosis treatment offer real hope to patients.

Scope of Care
Glaucoma, Multiple Sclerosis, Strabismus
Glaucoma, cont.

Mark Anthony Slabaugh, MD

Dr. Slabaugh is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview. He is a board-certified ophthalmologist with subspecialty training in the medical and surgical management of glaucoma. He has a particular interest in complicated glaucoma and cataract surgery, as well as management of uveitic glaucoma.

Education
BS - Hope College
MD – University of Washington
Residency – University of Washington
Fellowship in Glaucoma - University of British Columbia

Patient Care Philosophy
His goal is to prevent blindness caused by glaucoma.

Scope of Care
Glaucoma, cataracts, cataract surgery.

Medical and Surgical Retina

Grace Chang, MD, PhD

Dr. Chang is an assistant professor in the Department of Ophthalmology. She specializes in diseases of the retina and vitreous.

Education
(Chemistry)
Stanford University, MS (Electrical Engineering)
California Institute of Technology, PhD (Computation and Neural Systems)
Stanford University, MD
Massachusetts Eye and Ear Infirmary, Harvard University, Ophthalmology Residency
Massachusetts Eye and Ear Infirmary, Harvard University, Vitreoretinal Fellowship

Patient Care Philosophy
To provide the highest quality of care in a compassionate environment

Scope of Care
Medical and surgical management of vitreoretinal diseases

Jennifer Chao, MD, PhD

Dr. Chao is an assistant professor and attending physician at the UW Eye Institute at Harborview Medical Center. She is a clinician scientist who specializes in diseases of the retina, vitreous, and macula.

Education
BS - Stanford University
PhD - Yale University
Residency - USC/Doheny Eye Institute
Fellowship – Vitreoretinal Surgery - USC/Doheny Eye Institute

Patient Care Philosophy
Dr. Chao is dedicated to bringing the highest quality of care to her patients by offering the most up-to-date diagnostic and treatment options to her patients. She enjoys partnering with her patients in their care, listening to them, and keeping them informed of the latest in current research regarding challenging retinal diseases.

Scope of Care
Dr. Chao offers both medical and surgical treatments for vitreoretinal diseases. She has a particular interest in patients with hereditary retinal degenerations.
Medical and Surgical Retina, cont.

James L. Kinyoun, MD
Dr. Kinyoun is a UW professor of ophthalmology and attending physician at the UW Eye Institute at Harborview Medical Center, who specializes in medical and surgical diseases of the retina and vitreous. His clinical research interests include diabetic retinopathy and retina complications of prior radiotherapy.

Education
BS - University of Nebraska
MD - University of Nebraska College of Medicine
Fellowship - Disease and Surgery of Retina & Vitreous

Patient Care Philosophy
Each patient is unique and deserves individual attention regarding final diagnosis and selection of treatment. What worked very well for the last patient with the same eye problem may not be the best treatment choice for every patient. Educating each patient about the diagnosis and treatment options available allows the patient to become a part of the decision-making process.

Scope Of Care
Medical and surgical care of retina and vitreous diseases including retinal detachment, diabetic retinopathy, vitreous hemorrhage, age-related macular degeneration, and other macular abnormalities with intravitreal injections, vitrectomy, scleral buckle, laser photocoagulation, and lensectomy. Preoperative evaluations include interpretation of fluorescein angiography, B-scan ultrasonography and optical coherence tomography.

Richard S. Munsen, MD
Dr. Munsen is a UW clinical associate professor and an attending physician at the UW Eye Institute at Harborview Medical Center. His sub-specialty is diseases and surgery of the retina and vitreous.

Education
BA - St. Olaf College
MD - University of Iowa
General Medical Officer (general practice medicine), US Air Force
Residency - University of Michigan
Fellowship - Diseases and Surgery of the Retina and Vitreous University of Iowa

Patient Care Philosophy
Dr. Munsen treats all patients as if they were family members. The patient always comes first.

Scope Of Care
His expertise includes consultation for all types of retinal, vitreous and macular problems, as well as any laser treatment, injections or surgery for these problems.

G. Atma Vemulakonda, MD
Dr. Vemulakonda is a UW assistant professor of ophthalmology and an attending physician at the UW Eye Institute at Harborview Medical Center. His numerous clinical interests involve diseases and disorders of the retina and vitreous of adults, such as vitreoretinal surgery, age-related macular degeneration, diabetic retinopathy, retinal vascular disease and occlusions, vitreoretinal infectious disease and trauma involving the retina and vitreous.

Education
BA - Washington University
MD - Washington University School of Medicine
Residency - Washington University School of Medicine
Fellowship - Vitreoretinal Disease and Surgery - Oregon Health & Science University

Patient Care Philosophy
Enabling the patient to become actively involved with his or her medical team ensures treatment of the patient and not just the disease.

Scope Of Care
Diseases of the retina and vitreous, vitreoretinal surgery.
Neuro Ophthalmology

Courtney Francis, MD
Dr. Francis is an assistant professor of ophthalmology and an attending physician at the UW Eye Institute at Harborview Medical Center. Dr. Francis is a clinician educator with primary clinical interest in neuro-ophthalmology. She also cares for adult patients with strabismus.

Education
BS - Brown University
MD - University of Rochester
Residency - University of Alabama at Birmingham School of Medicine
Fellowship in Neuro-Ophthalmology - University of Southern California Keck School of Medicine

Patient Care Philosophy
Dr. Francis enjoys educating her patients on their diagnoses and making them active participants in their medical care.

Scope of Care
Dr. Francis specializes in neuro-ophthalmology. She treats patients with optic neuropathies, cranial nerve palsies, idiopathic intracranial hypertension, tumors involving the visual pathways, in addition to patients with systemic diseases such as multiple sclerosis, myasthenia gravis and Grave’s disease. She offers both medical and surgical treatments for adult strabismus.

James C. Orcutt, MD, PhD
Dr. Orcutt is Chief of Ophthalmology, Office of Patient Care Services at the Veterans Health Administration, Department of Veterans Affairs, and a UW professor of ophthalmology and adjunct professor of otolaryngology, head and neck surgery. His interests include neuro-ophthalmology, orbital disease and oculoplastic surgery.

Patient Care Philosophy
He is a strong proponent of team-based care, bringing together the appropriate individuals to address a patient’s problems. He is patient-centered in his approach to clinical care.

Scope Of Care
Dr. Orcutt is involved in the scope of services provided to veteran patients and has oversight responsibilities for surgical care delivered to veterans in Alaska, Oregon, Washington and Idaho. In addition, he serves as the Veterans Affairs National Program Director for Ophthalmology and as such has oversight responsibilities across the United States.

Oculofacial Plastic and Orbital Surgery

A.J. Amadi, MD
Dr. Amadi is a UW clinical assistant professor of ophthalmology and attending physician at 4 West Clinic at Harborview Medical Center.

Education
BS - Rensselaer Polytechnic Institute
MD - State University of New York
Residency - New York University Medical Center
Fellowship in Eye Pathology/Ocular Oncology, Harvard Medical School, Massachusetts Eye and Ear Infirmary
Fellowship in Oculofacial Surgery, Department of Ophthalmology, University of Washington

Patient Care Philosophy
Patients always come first.

Scope of Care
Orbital and ophthalmic/facial plastic surgery.
Oculofacial Plastic and Orbital Surgery, cont.

Holly Chang, MD
Dr. Chang is a UW assistant professor of ophthalmology and attending physician at the UW Eye Institute at Harborview Medical Center. She cares for patients with plastic surgery disorders affecting the eyelids, nasolacrimal system, orbit, face, and neck.

Education
BA - Duke University
MD - Johns Hopkins University
Residency - Washington University
Fellowship in Ophthalmic Pathology - Washington University
Fellowship in Oculoplastic Surgery - University of California

Patient Care Philosophy
As an ophthalmic pathologist as well as orbital and oculofacial plastic surgeon, Dr. Chang understands the microscopic basis of diseases, but approaches each patient as individuals with unique reconstructive and aesthetic goals.

Scope of Care
Dr. Chang provides medical and surgical care for patients with all forms of ptosis (droopy eyelids and eyebrows), nasolacrimal duct disease, orbital tumors/inflammation, Graves disease, eye socket abnormalities, facial skin cancers, and facial trauma. Cosmetic procedures include botulinum toxin injections, periocular and facial synthetic and fat fillers, chemical and laser skin resurfacing, eyebrow and eyelid lifts, and face/neck rejuvenation.

Oncology and Ocular Tumors

Robert E. Kalina, MD, Professor Emeritus
Dr. Kalina is a UW professor emeritus and past chair of the UW Department of Ophthalmology. He is past president of UW Physicians, director emeritus of the American Board of Ophthalmology and a recipient of the Life Achievement Honor Award of the American Academy of Ophthalmology.

Education
BA – University of Minnesota
BS – University of Minnesota
MD – University of Minnesota Medical School
Residency in Ophthalmology – University of Oregon Medical School
Special Fellow – National Institute of Neurological Diseases and Blindness – Massachusetts Eye and Ear Infirmary

Patient Care Philosophy
Dr. Kalina thoroughly enjoys meeting patients and trying to help them solve their health problems.

Scope Of Care
Intraocular tumors and retinal diseases, particularly retinal degenerations; inherited retinal diseases; and retinopathy of prematurity.

Todd Klesert, MD, PhD
Dr. Klesert is an acting assistant professor and an attending physician at the UW Eye Institute at Harborview Medical Center. He is a clinician educator with primary clinical interest in vitreoretinal disease and surgery. He also cares for patients with intraocular tumors.

Education
BS - Alma College
PHD - University of Washington
MD - University of Washington
Residency - Johns Hopkins University
Fellowship in Vitreoretinal Surgery - University of Southern California

Patient Care Philosophy
Dr. Klesert’s goal is to provide state-of-the-art medical and surgical care of the eye, based on our best current medical evidence, with a foundation of compassion and effective patient communication.

Scope of Care
Dr. Klesert provides care through medical treatments, in-office procedures, and surgery.
Optometric Services

Claire Angel, OD
Dr. Angel received her optometry degree from the Southern College of Optometry in Memphis. After completing postgraduate training in ocular disease at the Omni Eye Services of Memphis, she went on to become the clinical director of Omni Eye Services and the Optometric Director of Refractive Services at TLC Laser Eye Centers. Dr. Angel has been in private practice for 15 years, focusing on corneal disease.

Education
BS - Southern College of Optometry
OD - Southern College of Optometry
Residency - Omni Eye Services

Patient Care Philosophy
Compassion and individual attention are critical in providing patients with highest standards of comprehensive optometric eye care. Dr. Angel believes in giving patients a thorough explanation and providing them with the tools to be proactive in their care. She feels fortunate to work with an outstanding team at the UW that synchronizes care to provide patients with a seamless experience.

Scope Of Care
Comprehensive primary eye care which includes annual eye examinations, baseline dilated fundus exam for patients diagnosed with systemic diseases and evaluation, treatment and appropriate referrals for red eye.

Nancy Ross, OD
Dr. Ross is a UW teaching associate and primary optometrist for the refractive Surgery Center at UW Medical Center.

Education
BA - Exercise and Sport Science, Minor in Chemistry - Western Washington University
OD - Pacific University College of Optometry
Residency - Westside VAMC, Chicago, IL
Residency - Hines VAMC Blind Rehabilitation Center, Hines, IL

Patient Care Philosophy
Compassion and individual attention are critical in providing patients with highest standards of comprehensive eye care. Dr. Ross believes in giving patients a thorough explanation and providing them with the tools to be proactive in their care. She feels fortunate to work with an outstanding team at the UW that synchronizes care to provide patients with a seamless experience.

Scope Of Care
Comprehensive primary eye care which includes annual eye examinations, baseline dilated fundus exam for patients diagnosed with systemic diseases and evaluation, treatment or appropriate referrals for red eye emergencies. She also provides refractive surgery consultations, comprehensive pre-operative eye exams for LASIK, PRK and cataract patients, post-operative follow-up and general eye exams for past refractive surgery patients.

James Toop, OD
Dr. Toop is a primary care optometrist and UW teaching associate with an emphasis on contact lens fitting. He sees patients of all ages.

Education
BSc, University of Edinburgh, Scotland
PhD - University of Edinburgh, Scotland
OD - New England College of Optometry
Fellowship in Muscle Biochemistry - University of California

Patient Care Philosophy
All patients receive the full benefit of care without discrimination. Patients will be treated courteously and will be seen in a timely fashion if at all possible.

Scope Of Care
Complete eye exams, with referral to appropriate specialists as needed; and fitting of soft and hard contact lenses for cosmetic or therapeutic reasons.
Pediatric and Strabismus

Francine M. Baran, MD  
Dr. Baran is a UW clinical assistant professor of ophthalmology and a member of the surgical faculty team at Seattle Children's.

Patient Care Philosophy  
Her daily commitment is to providing children a comfortable and friendly environment so they feel at ease during eye exams. She understands that an unfamiliar environment can be intimidating, so she tries to make the whole experience as much fun as possible, which makes each day an exciting opportunity to help young people.

Education  
BA - Washington University  
MD - Hahnemann School of Medicine  
Residency - State University New York - Downstate, Brooklyn, NY  
Pediatric Fellowship - Children's National Medical Center

Patient Care Philosophy  
Good vision is essential for proper physical and emotional development, as well as educational progress in growing children. She aims to empower her adult patients to understand their medical condition and take an active role in their care. She also believes that listening is the first step in treating a patient's medical condition.

Scope Of Care  
Pediatric Ophthalmology, Strabismus.

Kristina Tarczy-Hornoch, MD, DPhil  
Dr. Tarczy-Hornoch joined the UW in 2012 as Associate Chief of Ophthalmology at Seattle Children's Hospital; she is an Associate Professor in the Department of Ophthalmology.

Her clinical and research interests focus on disorders that affect visual development in children.

Education  
She completed her undergraduate studies and her doctoral degree (D.Phil., neurophysiology) at the University of Oxford, England. She obtained her M.D. from the University of California San Francisco. After a medicine internship at UW, she completed her ophthalmology residency at the Doheny Eye Institute of the University of Southern California, and her fellowship in pediatric ophthalmology and strabismus at the Wilmer Eye Institute of Johns Hopkins University. In addition, she holds a masters degree in clinical and biomedical investigation from the University of Southern California.

Patient Care Philosophy  
Caring for children means caring for the whole family. Parents will do everything possible to help their children, but can sometimes feel overwhelmed by the decisions they face, especially when there isn't just one right answer. One of the most rewarding experiences for a physician is being able to teach families and empower them to make informed decisions about a child's care.

Scope of Care  
Dr. Tarczy-Hornoch specializes in pediatric ophthalmology, providing both medical and surgical care for children with eye or vision problems.

Erin P. Herlihy, MD  
Dr. Herlihy is a UW assistant professor of ophthalmology and a physician at Seattle Children's.

Education  
BS - University of Notre Dame, Notre Dame  
MD - Loyola University Stritch School of Medicine  
Residency - University of Washington  
Fellowship - Pediatric Ophthalmology and Strabismus - Kellogg Eye Center

Patient Care Philosophy  
A fun and nonthreatening environment is essential in engaging children and their families to participate in their eye care. Children are not just little adults.

Scope Of Care  
Pediatric and adult strabismus, amblyopia, nasolacrimal disorders, refractive error in children, pediatric cataracts, pediatric glaucoma and systemic diseases that affect the eyes.
Pediatric and Strabismus, cont.

Avery H. Weiss, MD
Dr. Avery H. Weiss, is chief of the division of ophthalmology at Seattle Children’s Hospital, the Roger H. & Angie Karalis Johnson professor in pediatric ophthalmology, and professor of ophthalmology at the University of Washington School of Medicine. His clinical interests include visual disorders, eye movement abnormalities, cataract and glaucoma, retinoblastoma and orbital tumors, ocular malformations and ophthalmological manifestations of systemic diseases.

Education
- BS - University of Florida
- MD - University of Miami
- Residency - Washington University
- Fellowship - Washington University
- Fellowship - Pediatric Ophthalmology - Children's Hospital National Medical Center

Uveitis and Ocular Inflammation

Russell N. Van Gelder, MD, PhD
Dr. Van Gelder is the UW Boyd K. Bucey Professor and chair of the Department of Ophthalmology and Director of the UW Medicine Eye Institute. Dr. Van Gelder is a clinician-scientist. His primary clinical interest is in ocular inflammatory disease (uveitis and related conditions). He also cares for patients with medical retinal diseases.

Education
- BS - Stanford University School of Medicine
- MD - Stanford University School of Medicine
- PhD - Stanford University Hospital and Veterans Administration Hospital
- Residency - Barnes Retina Institute/Washington University Medical School
- Fellow - Uveitis and Medical Retina Instructor

Patient Care Philosophy
Dr. Van Gelder practices evidence-based medicine supported by over a decade of practice in uveitis. He gives the same thorough, personal attention to each patient. He involves the entire eye care team in patient care, and he examines each patient and discusses his or her care with patience and thoroughness. Dr. Van Gelder involves patients in their care decisions and takes each patient's individual philosophy and preference into account when deciding on a treatment course.

Scope Of Care
Dr. Van Gelder treats ocular inflammatory and medical retinal disease primarily through medical treatments, as well as in-office procedures.

Refractive Surgery

See provider profile information under Cornea and External Disease

Bryan Lee, MD, JS
Tueng T. Shen, MD, PhD
Michael Wu, MD
Grants, Gifts, and Awards

Research Grants & Contracts

Ethan Buhr, PhD
The location and functional properties of the retinal circadian clock
National Institutes of Health
February 1, 2012 – January 31, 2014

Jennifer Chao, MD, PhD
Personalized medicine for macular degeneration: High throughput screening for small molecule therapeutics with iPSC-derived RPE cells of age-related molecular degeneration patients
Bill & Melinda Gates Foundation
May 21, 2012- April 30, 2014

Stem-cell properties of human corneal keratocytes
National Institutes of Health
May 1, 2010 – April 30, 2015

Courtney Francis, MD
A prospective case-crossover study to evaluate the possible association between the use of PDE5 inhibitors and the risk of acute non-arteritic anterior ischemic optic neuropathy
Eli Lilly
November 1, 2012 – October 31, 2013
RPB Unrestricted Grant
Research to Prevent Blindness

James Kinyoun, MD
Diabetic retinopathy clinical research network
Jaeb Center for Health Research
September 30, 2002-December 31, 2013

Deborah Lam, MD
Flare photometry in uveitis patients
ChomoLogic
June 5, 2012 – March 31, 2013

Michael Manookin, PhD
Mechanisms for color-coding in the primate visual system
Helen Hay Whitney Foundation
April 1, 2011 – March 31, 2014

Michael Mustari, PhD
RPB Walt & Lily Disney Award for Amblyopia Research
Research to Prevent Blindness
July 1 2012, June 30, 2013

Jay Neitz, PhD,
Bishop Professor
Are cone opsin gene sequences correlated to refractive error?
Alcon
June 1, 2011 – June 1, 2013

Expression and function of cone pigment genes
National Institutes of Health
January 2009, - August 31, 2012

Myopia: The role of cone opsin mutations & lenses that control axial length
National Institutes of Health
September 30, 2011, August 31, 2016

Maureen Neitz, PhD
Ray H. Hill Professor
Cone opsin risk factors in AMD
Macula Vision Research Foundation
January 1, 2011 – December 31, 2013

Genes and photopigments of red-green color vision: Exploring circuitry with fMRI
National Institutes of Health
March 1, 2011 – February 28, 2014

CORE grant for vision research
National Institutes of Health
September 1, 2011 – August 31, 2016

Exploring plasticity of the adult visual system using viral gene delivery
National Institutes of Health
March 1, 2012 – February 29, 2016
Tueng Shen, MD, PhD
Shedding light into glaucoma: Developing a non-invasive imaging tool for directly visualizing and assessing the trabecular meshwork
Coulter Foundation

Second Window
National Science Foundation
October 1, 2009 – September 30, 2013

Russell N. Van Gelder, MD, PhD
Boyd K. Bucey Memorial Chair, Professor and Chair
FY13 UW Ophthalmology faculty salary support at veterans health administration
Veterans Health Administration
October 1, 2012 – March 31, 2013

Function of nano-medical compounds in the treatment of blindness
UC Berkeley (subcontract)

Characterization of rodent models of intraocular inflammation
Alcon
April 1, 2012, March 30, 2013

Microbiome analysis of the ocular surface in dry eye disease
Alcon
April 1, 2012, March 30, 2013

Pathogenesis of inflammatory eye disease
Burroughs Wellcome Fund
January 1, 2008, December 31, 2013

Diversity and dynamic stability of the ocular surface microbiome
National Institutes of Health
September 1, 2012 – August 31, 2017

Biome representational in silico karyotyping for PCR-negative conjunctivitis
NovaBay Pharmaceuticals
October 15, 2012, November 12, 2012

Ruikang Wang, PhD
Non-invasive 3-D optical imaging of retinal microcirculations
Research to Prevent Blindness
January 1, 2012 – December 31, 2014
Honor Roll of Donors

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Kermit and Margaret Alskog
American Glaucoma Society
Claire T. Angel, O.D.
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Ashok and Sudha Katti
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Edvard L. Vervoort
William E. Whitson, M.D.
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Faculty Publications 2011-2012
University of Washington School of Medicine


