John F. Hardesty, MD, Department of Ophthalmology and Visual Sciences

The John F. Hardesty, MD, Department of Ophthalmology and Visual Sciences has a strong legacy and is a national leader in clinical ophthalmology and research. It is ranked among the top ten best overall programs in the United States, and it is also considered one of the top ten best research programs by U.S. News & World Report. Our ophthalmology department is fourth in National Institutes of Health funding for research and has one of the nation's largest ophthalmology research faculty. The department's mission is as follows: "As world leaders in patient care, teaching and research, we strive to touch lives and preserve and restore vision through innovation and compassionate service." We hope that students will join us to enrich their medical education and to experience the collaborative culture of ophthalmology.

Although only a small percentage of physicians in the United States specialize in ophthalmology, there is no doubt that all physicians need a basic understanding of the eye and what it can reveal about a patient's condition. In a recent article published in the journal Ophthalmology, it was stated that "ophthalmology-related issues arise in the diagnosis and treatment of inpatients and outpatients on internal medicine, pediatrics, trauma surgery, neurology, endocrinology, neurosurgery, otolaryngology, dermatology, oncology, and rheumatology services."

The article went on to state that "[m]ost primary care program directors believe fewer than 50% of incoming residents have sufficient ophthalmology skills when entering the internship period of medical education. Ophthalmoscopy is one of many ophthalmic skills in which there seems to be a gap in the training of medical students. [A study] demonstrated that emergency medicine physicians often do not perform an ophthalmoscopic examination when it is indicated, and when they do, they are unlikely to detect abnormal findings. This presents a serious issue, because patients with visual impairments are more likely to be hospitalized, and from 2006 through 2011, there were 12 million eye-related emergency department visits nationwide. If they are unable to view or interpret fundus findings with either an ophthalmoscope or fundus photography, the students must know when it is necessary to refer their patients to an ophthalmologist for further evaluation." In other words, even if a physician does not plan to make ophthalmology their career, deepening their knowledge of this field will enhance their skills as a physician in any field.

At Washington University School of Medicine, ophthalmology-based instruction begins during the first year with examination of the eye and a lecture on various aspects of ocular disease. During the second year, students will receive a refresher lecture and lab on direct ophthalmoscopy as well as a lecture on ophthalmic manifestations of systemic disease and primary ocular disease. During the third year, students are given the opportunity during the surgery clerkship to spend four weeks on the ophthalmology services; in addition, there are lectures given to students during the Internal Medicine rotations. During the fourth year, a four-week intensive clinical rotation is tailored to students interested in pursuing ophthalmology as a career. Research electives are available under the guidance of numerous ophthalmology faculty members for fourth-year students.


Website: http://ophthalmology.wustl.edu

Faculty

Our staff includes full-time university attending physicians for all subspecialties in ophthalmology, including ocular tumors, oculoplastics and uveitis. We have a very healthy mix of senior established faculty and junior members.

Alan A. and Edith Wolff Distinguished Professor and Chairman
Todd Margolis, MD, PhD (https://ophthalmology.wustl.edu/people/todd-margolis-md-phd/)

Pediatric Ophthalmology Director
R. Lawrence Tychsen, MD (https://wuphysicians.wustl.edu/find-a-physician/lawrence-tychsen/)

Adult Ophthalmology Clinical Director
P. Kumar Rao, MD (https://profiles.wustl.edu/en/persons/kumar-rao/)

Ophthalmology Research Director
Peter Lukasiewicz, PhD (https://profiles.wustl.edu/en/persons/peter-lukasiewicz/)

Ophthalmology Director of Translational Research
Rajendra Apte, MD, PhD (https://profiles.wustl.edu/en/persons/rajendra-apte/)

Visit our website for more information about our faculty (http://ophthalmology.wustl.edu/Faculty/) and their appointments.
A

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OD Illinois College of Optometry 1981
BA University of Missouri 1976

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MS University of Bombay 1966
UNKNOWN University of Bombay 1960
MBBS Bombay University Medical Scho 1965

Shilpa S Amin, MD
Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BA University of MO Kansas City 1994
MD University of MO Kansas City 1994

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Professor of Ophthalmology and Visual Sciences (primary appointment)
Assistant Professor of Biochemistry and Molecular Biophysics
PHD Jawaharlal Nehru University 1977
MS Delhi University 1972
BS Delhi University 1970

Rajendra Apte, PHD, MD
Paul A. Cibis Distinguished Professor of Ophthalmology and Visual Sciences (primary appointment)
Professor of Developmental Biology
Professor of Medicine
Vice Chair of Translation and Innovation Department of Ophthalmology
PHD University of Texas Southwest 1997
MD University of Bombay 1993

B

Alexander Steven Barsam, MBA, MD
Instructor in Ophthalmology and Visual Sciences (primary appointment)
MBA University of Miami 2015
BS University of California 2010
MD University of Miami 2016

Steven Bassnett, PHD
Professor of Ophthalmology and Visual Sciences (primary appointment)
Professor of Cell Biology and Physiology
PHD University of East Anglia 1987
BS University of Wales 1982

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MA Washington Univ in St. Louis 1950
MD University of Chicago 1955
PHD Washington Univ in St. Louis 1951
BA Washington Univ in St. Louis 1948

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BA Earlham College 1982
MD Washington Univ in St. Louis 1987
MA Washington Univ in St. Louis 1987

Gregg Jonathan Berdy, MD
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MD Saint Louis University 1983
BA Duke University 1979

Paul M Bernier, OD
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OD University of Missouri 1987
BS Indiana State University 1983

Anjali Maruti Bhorade, MD
Associate Professor of Ophthalmology and Visual Sciences (primary appointment)
Associate Professor of Occupational Therapy
MD University of Chicago 1999

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BS University of Missouri 1979
OD University of MO St Louis 1984

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MD University of MO Kansas City 1985

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BA Yale University 1966  
MD Johns Hopkns University Medic 1970

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BN Saint Louis University 1978

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(primary appointment)  
BA Holy Cross College 1988  
MD Boston University 1992

Rebekah Arletta Braslow, MD  
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(primary appointment)  
MD Yale University 1987  
BS Stanford University 1981

Sean Michael Breit, MD  
Instructor in Clinical Ophthalmology and Visual Sciences  
(primary appointment)  
MD Ohio State University 2002

Larry G Brokering, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
(primary appointment)  
OD Illinois College of Optometry 1972

Marc Richard Brown, OD  
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(primary appointment)  
BA University of Missouri 1974  
OD School Not Listed 1980

Nancy M Buchser, MD  
Instructor in Clinical Ophthalmology and Visual Sciences  
(primary appointment)  
MD University of Miami 2007

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MD University of California 1967

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(primary appointment)  
BA University of MO St Louis 1977  
OD Illinois College of Optometry 1982  
BS Illinois College of Optometry 1980

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(primary appointment)  
OD School Not Listed 1957

Shiming Chen, MS, PHD  
Professor of Ophthalmology and Visual Sciences (primary appointment)  
Professor of Developmental Biology  
MS Beijing Medical University 1984  
BS Beijing University 1981  
PHD State University of New York 1992

Brian Stewart Clark, PHD  
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Assistant Professor of Developmental Biology  
PHD Medical College of Wisconsin 2013

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MD La Salle University 1964  
MD Saint Louis University 1968

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OD University of Missouri 1987

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Associate Professor of Ophthalmology and Visual Sciences  
(secondary appointment)  
MD University of MO Kansas City 2006

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Adjunct Instructor in Ophthalmology and Visual Sciences  
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OD University of MO St Louis 1991  
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Philip L Custer, MD  
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Professor of Ophthalmology and Visual Sciences (primary appointment)
BS Vanderbilt University 1974
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OD School Not Listed 1964

Alicia Beatriz De Maria Leiva, PhD
Instructor in Ophthalmology and Visual Sciences (primary appointment)
PHD Universidad de la Republica 2002

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MD University of Illinois 1988
BA Washington Univ in St. Louis 1983

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OD Illinois College of Optometry 1959

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OD University of Missouri 1988
BS Southern Ill Univ Edwardsville 1985

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OD University of Missouri 1990

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OD University of Missouri 1989
BS University of Michigan 1984

Adam Ross Fedyk
Instructor in Clinical of Ophthalmology & Visual Sciences (primary appointment)

Robert M Feibel, MD
Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BA Johns Hopkins University 1965

MD Harvard University 1969

Thomas A Ferguson, MS, PhD
Professor of Ophthalmology and Visual Sciences (primary appointment)
Associate Professor of Pathology and Immunology
BA Kent St University 1974
MS Kent St University 1976
PHD University of Cincinnati 1982

Kurt W Finklang, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD State University of New York 1981
BS University of Missouri 1977

Frank Donald Fontana, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD Illinois College of Optometry 1950

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BS Mass Inst of Technology (MIT) 1972
MD Washington Univ in St. Louis 1976

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OD University of Missouri 1988
BS University of Missouri 1984

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BA Columbia University 1972
MD Case Western Reserve Univ 1977

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Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS Indiana University Bloomington 1978
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Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD University of Minnesota 1966
BA University of Minnesota 1962

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Professor of Biostatistics
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PHD Univ of Wisconsin Madison 1979
MS Univ of Wisconsin Madison 1970

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BS Saint Louis University 1956
MD University of Missouri 1960

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MD University of Michigan 1999
BS University of Notre Dame 1995

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BA Saint Louis University 1983
OD Penn College of Optometry 1987

H

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Assistant Professor of Pathology and Immunology
BA Harvard University 1995
MD University of Virginia 2000

Alexander D Harris, OD, MA
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OD University of Missouri 1986
MA Washington Univ in St. Louis 1972
BA University of Evansville 1969

Charles R Harris, PHD
Instructor in Clinical Ophthalmology and Visual Sciences (primary appointment)
PHD University of MO Columbia 1971
BS University of Missouri 1970

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BS Evangel University 2002
MD University of Virginia 2012
PHD University of Virginia 2010

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OD School Not Listed 1967
BS School Not Listed 1967

James R Hoekel, OD
Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS University of MO Columbia 1990

OD University of MO St Louis 1994

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Assistant Professor in Ophthalmology and Visual Sciences (primary appointment)
MD University of Illinois Chicago 2009
BA University of Illinois 2004

Jing-Wei Huang, MD
Professor of Ophthalmology and Visual Sciences (primary appointment)
MD National Taiwan University 1981

Douglas Lee Huff, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD So Cal College of Optometry 1981
BS School Not Listed 1980

I

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MD Washington Univ in St. Louis 1975

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BA University of Missouri 1975
OD So Cal College of Optometry 1980
BS So Cal College of Optometry 1978

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K

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MD Washington Univ in St. Louis 1970

Michael A Kass, MS, MD
Bernard Becker Professor of Ophthalmology and Visual Sciences (primary appointment)
Senior Associate Dean for Human Research Protection
MS Northwestern University Med 1966
MD Northwestern University 1966
BS Northwestern University 1963

Vladimir Jivkov Kefalov, PHD
Bernard Becker and Janet R Becker Distinguished Professorship in Ophthalmology (primary appointment)
Professor of Neuroscience  
PHD Boston University 1999

Deborah Lynn Kerber, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
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OD University of Missouri 1992  
BS Southeast Missouri St Univers 1986

Daniel Kerschensteiner, MD  
Professor of Ophthalmology and Visual Sciences (primary appointment)  
Professor of Biomedical Engineering (Courtesy)  
Professor of Neuroscience  
MD Georg August University 2004

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William F Kiefer Jr, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
(primary appointment)  
OD Illinois College of Optometry 1975  
BS Illinois College of Optometry 1973  
BA Princeton University 1967

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Adjunct Instructor in Ophthalmology and Visual Sciences  
(primary appointment)  
BS Indiana University Bloomington 1977  
OD Indiana University Bloomington 1979

Vivian Marie Kloke, OD  
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(primary appointment)  
BS Mckendree College 1986  
OD University of Missouri 1990

Harry L Knopf, MD  
Professor of Clinical Ophthalmology and Visual Sciences  
(primary appointment)  
MD Harvard University 1967  
BA Harvard University 1963

Ronald Joseph Knox, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
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OD School Not Listed 1956

Thomas Errol Kraemer, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
(primary appointment)  
BS Indiana University Bloomington 1970  
OD Indiana University Bloomington 1972  
BA Millikin University 1968

L

Robert Louis Lamberg, MD  
Associate Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)  
BS University of MO St Louis 1972  
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BS School Not Listed 1963  
OD School Not Listed 1963  
AA Harris Stowe St College 1959

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Assistant Professor of Ophthalmology & Visual Sciences  
(Pending Executive Faculty Approval) (primary appointment)  
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BS University of Maryland 1983

Scott W Lewis, BS1, OD  
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(primary appointment)  
BS1 So Cal College of Optometry 1975  
BS University of Illinois 1968  
OD So Cal College of Optometry 1977

James Walter Lieber, OD  
Adjunct Instructor in Ophthalmology and Visual Sciences  
(primary appointment)  
BS Wayne State University 1976  
OD Illinois College of Optometry 1981

Anthony J Lubniewski, MD  
Professor of Ophthalmology and Visual Sciences (primary appointment)  
MD University of Florida 1985  
BS University of Florida 1980

Gregg T Lueder, MD  
Professor of Ophthalmology and Visual Sciences (primary appointment)  
Professor of Pediatrics  
MD University of Iowa 1985  
BS Iowa State University 1981

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Janet and Bernard Becker Professor of Ophthalmology (primary appointment)  
Professor of Neuroscience  
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PHD University of Michigan 1984

M

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Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
MD University of CA Irvine 2014

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OD University of Missouri 1993
BA University of Kansas 1989

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Alan A and Edith L Wolff Distinguished Professor (primary appointment)
Head of the Department of Ophthalmology and Visual Sciences
BS Stanford University 1977
PHD University of CA San Francisco 1983
MD University of CA San Francisco 1984

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Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
BS1 University of Missouri 1986
BS University of Missouri 1986
OD University of MO St Louis 1991

Barry David Milder, MD
Associate Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Washington Univ in St. Louis 1973
BS Mass Inst of Technology (MIT) 1969

Duane L Mitzel, MD
Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BS University of California 2000
MD Washington Univ in St. Louis 1977

Eugene James Mobley, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD Northern Illinois University 1950

Robert L Mobley, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD Illinois College of Optometry 1958

Cynthia L. Montana, PHD, MD
Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
BS University of Virginia 2005
PHD Washington Univ in St. Louis 2014
MD Washington Univ in St. Louis 2014

Joshua L. Morgan, PHD
Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
Assistant Professor of Neuroscience
PHD Washington Univ in St. Louis 2007

BA Florida Southern College 2001

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Instructor in Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Saint Louis University 1977
BA University of Colorado Boulder 1974

Raymond I Myers, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD Indiana University Bloomington 1970
BS University of Notre Dame 1966

Randall Earl Nacke
Instructor in Clinical Ophthalmology and Visual Sciences (primary appointment)

Matthew Newman, MD
Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Columbia University 1959
BA Vanderbilt University 1956

Paul F Nichols III, MD
Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BA University of California 1978
MD University of California 1982

Judith Mosinger Ogilvie, PHD1, MA, PHD
Adjunct Research Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
PHD1 Harvard University 1983
BS Brown University 1976
MA Harvard University 1978
PHD Harvard University 1983

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MD Saint Louis University 2000
BA Vanderbilt University 1995

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BS West Virginia University 1993
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BA Queens College 1967
MD Cornell University 1971

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Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
BS Spelman College 2003
MD Emory University 2011
PHD Emory University 2009

R

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Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
MD New York University 2007

Mark S Rallo, OD
Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS Saint Louis University 1986
OD University of Missouri 1990

Prabakar Kumar Rao, MD
Professor of Ophthalmology and Visual Sciences (primary appointment)
MD University of Southern Calif 1995
BA University of CA San Diego 1991

V. Nathan Ravi, PHD, MD, MS
Professor of Ophthalmology and Visual Sciences (primary appointment)
Professor of Energy, Environmental and Chemical Engineering
PHD Virginia Tech 1980
BS University of Bombay 1972
MD University of Miami 1988
MS University of Bombay 1975

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Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
BS Creighton University 2010
MD Cornell University 2014

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OD University of Missouri 1987
BS Valparaiso University 1983

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BA University of Michigan 1959

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MD Washington Univ in St. Louis 1966
BS Lamar University 1962

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PHD Washington University in St. L 2018
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S

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BS Saint Louis University 2001
MD Saint Louis University 2005

Frederick W Schwagger, OD, BS1
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS Illinois College of Optometry 1957
OD Illinois College of Optometry 1957
BS1 Washington Univ in St. Louis 2000

Christopher G Seep, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BA University of Missouri 1971
OD University of MO St Louis 1984

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OD University of Missouri 1987

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MD University of Michigan 2007

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MD Washington Univ in St. Louis 2008

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Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BS Washington Univ in St. Louis 1981
MD Washington Univ in St. Louis 1986

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Professor of Ophthalmology and Visual Sciences (primary appointment)
Professor of Genetics
BS School Not Listed 1979
PHD University of London 1983

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Instructor in Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Saint Louis University 1978
BA Washington Univ in St. Louis 1974

Erin Gwen Sieck, MD
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MD University of MO Kansas City 2015
BA University of MO Kansas City 2013

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Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS School Not Listed 1957
OD School Not Listed 1957

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Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS Illinois College of Optometry 1972
OD Illinois College of Optometry 1974

Craig H Sorce, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BA Southern Illinois University 1988
OD University of Missouri 1992

Florentina Soto Lucas, PHD
Associate Professor of Ophthalmology and Visual Sciences (primary appointment)
PHD University of Alicante 1992

Mark H Spurrier, MD
Instructor in Clinical Ophthalmology and Visual Sciences (primary appointment)
BA Kansas State University 1976
MD Washington Univ in St. Louis 1980

Joseph Steska, OD

Instructor in Ophthalmology and Visual Science (primary appointment)
OD Illinois College of Optometry 2009

Michael Vincent Stock, BE, BE1, MD
Instructor in Ophthalmology and Visual Sciences (primary appointment)
BE Vanderbilt University 2008
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MD Washington Univ in St. Louis 2012

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OD School Not Listed 1954
BS School Not Listed 1953
MBA Southern Ill Univ Edwardsville 1988

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Assistant Professor of Neurology
BA Johns Hopkins University 2008
MD Cornell University 2014
BA Johns Hopkins University 2008

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Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD Illinois College of Optometry 1978

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T

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Associate Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD State Univ of NY Stonybrook 1991
BS Mass Inst of Technology (MIT) 1981
PHD State Univ of NY Stonybrook 1990

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MD Harvard University 1991
BS Harvard University 1977

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Professor of Ophthalmology and Visual Sciences (primary appointment)
MD Northwestern University 1995
BA Northwestern University 1990

Robert Lawrence Tychsen, MD
Professor of Ophthalmology and Visual Sciences (primary appointment)
John F. Hardesty, MD, Distinguished Professor of Ophthalmology and Visual Sciences
Professor of Neuroscience
Professor of Ophthalmology and Visual Sciences in Pediatrics
MD Georgetown University 1979
BS Georgetown University 1975

Gregory Paul Van Stavern, MD
Professor of Ophthalmology and Visual Sciences (primary appointment)
Professor of Neurology
BS La Salle University 1989
MD Pennsylvania State University 1993

Gary Lee Vogel, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BA University of Iowa 1970
OD Ohio State University 1977

James J Wachter, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS Illinois College of Optometry 1990
BA Saint Louis University 1987
OD Illinois College of Optometry 1991

Donald E Walter Jr, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
BS University of Houston 1971
OD University of Houston 1972

William Lee Walter, MD
Assistant Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Ohio State University 1954
BA De Paul University 1950

Stephen R Waltman, MD, MBA
Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
MD Yale University 1964
BS Mass Inst of Technology (MIT) 1961

Stephen Alan Wexler, MD
Professor of Clinical Ophthalmology and Visual Sciences (primary appointment)
BS University of Michigan 1977
MD University of Michigan 1982

Richard Harris Wieder, MD
Associate Professor of Ophthalmology and Visual Sciences (primary appointment)
BS University of Illinois 1982

MD University of Illinois 1986

Philip Raymond Williams, PHD
Assistant Professor of Ophthalmology and Visual Sciences (primary appointment)
Assistant Professor of Neuroscience
PHD Washington Univ in St. Louis 2009

Michael L Wolf, OD
Adjunct Instructor in Ophthalmology and Visual Sciences (primary appointment)
OD University of Missouri 1987
BS University of Missouri 1979

Ming-Fong Agnes Wong, MD, PHD
Adjunct Professor of Ophthalmology and Visual Sciences (primary appointment)
MD McGill University 1994
BA Boston University 1990
PHD University of Toronto 2001

Research Electives

Ophthalmology and Visual Sciences Research Electives

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

Further descriptions of our research labs can be found on the Vision Core Researchers webpage (http://vrcore.wustl.edu/residentstudentresearchopportunities/RSROHome/).

Usha P. Andley, PhD
1114-C McMillan
Phone: 314-362-7167

Molecular basis of cataract; the function of molecular chaperones in cataract; proteomics, imaging and biochemical studies on cell culture and mouse models for crystallin gene mutations linked with cataract; testing drugs to inhibit cataract.

Rajendra S. Apte, MD, PhD
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Innate immunity and immune effector mechanisms in the retina; oxidative stress and cell death; models of developmental angiogenesis and neovascularization; inflammation and photoreceptor survival; macular degeneration.

Steven Bassnett, PhD
1114 McMillan
Phone: 314-362-1604
Eye development; stochastic models of lens growth; stem cell biology; age-related cataract; UV-induced somatic mutation; ocular manifestations of Marfan syndrome; cell death suppression on the optic axis; cell biology of transparent tissues.

Anjali Bhorade, MD
Phone: 314-362-5343
Evaluating the effect of glaucoma on visual function in older adults in the home; understanding the relationship between vision and driving in older adults with glaucoma.

Shiming Chen, PhD
618 McMillan
Phone: 314-747-4350
Our primary interests are molecular mechanisms regulating photoreceptor gene expression and the implications in understanding photoreceptor development and disease. We are focusing on three transcription factors (CRX, NRL and NR2E3) linked to photoreceptor degenerative diseases. Molecular genetics and biochemical approaches are used to identify the regulatory pathways associated with each factor. Mouse models are used to understand why mutations in these factors cause disease and to develop therapeutic strategies, including AAV gene therapy.

Steven M. Couch, MD
couch@vision.wustl.edu
Orbital inflammatory diseases; surgical techniques and novel treatments of periocular/orbital disease.

Susan M. Culican, MD, PhD (Adjunct Professor)
culican@wustl.edu
Clinical: Development of a low-cost, simple visual function task for screening for macular disorders in the primary care setting. Education: Examination of the utility of assessment tools for evaluating resident clinical progression during residency training; development of new metrics to gauge resident progress.

Philip L. Custer, MD
custer@vision.wustl.edu
Enucleation and anophthalmic socket disorders; orbital fractures and implants; hemorrhagic complications during oculoplastic procedures.

Thomas A. Ferguson, PhD
1207 McMillan
Phone: 314-362-3745
Molecular basis of immune tolerance and how apoptotic cells tolerize the immune response; role of immune privilege in the pathogenesis of eye diseases such as age-related macular degeneration; role of basal autophagy in the cells of the eye by using the cre-loxP system to delete essential autophagy genes from specific cell types in the eye.

Mae Gordon, PhD
Phone: 314-362-3716
Ocular hypertension; glaucoma; keratoconus; adenoviral conjunctivitis; randomized clinical trial methodology; patient-reported outcome measures and measurement reliability.

George J. Harocopos, MD
harocopos@vision.wustl.edu
Age-related cataract; ophthalmic pathology.

Andrew Huang, MD, MPH
106 McMillan
Phone: 314-362-0403
Ocular surface stem cell biology; molecular therapy for corneal dystrophies and corneal neovascularization; oxidative stress of corneal endothelium; clinical research on dry eye and ocular surface disease.

Humeyra Karacal, MD
karacal@vision.wustl.edu
Treatment of uveitis; prevention of cataracts with antioxidants; antioxidants in age-related macular degeneration; retinal imaging and analysis using data mining techniques; designing operating room equipment to facilitate ophthalmic surgery.

Michael A. Kass, MD
kass@vision.wustl.edu
Principal Investigator of the Ocular Hypertension Treatment Study; diagnosis, treatment and public health aspects of glaucoma.

Vladimir Kefalov, PhD
625 McMillan
Phone: 314-362-4376
Our primary interests are photoreceptor neurobiology and retinal degeneration. We are a sensory neurobiology lab interested in the function of mammalian rod and cone photoreceptors. In addition, we are interested in the mechanisms of neurodegeneration in the retina, and we are working on developing pharmacological and gene therapy tools for preventing photoreceptor cell death.
Our primary interest is in understanding the principles that guide the assembly of neural circuits and deciphering the way they process information. We hope to identify features of the retinal circuit architecture that perform particular computations and characterize how they arise during development. We will then probe underlying mechanisms of circuit assembly and function through genetically targeted manipulations of specific cells in the retina.

John T. Lind, MD, MS
lindj@vision.wustl.edu
Glaucoma education; resident education; pharmacologic and surgical treatment of glaucoma; ophthalmic microbiology.

Gregg T. Lueder, MD
lueder@vision.wustl.edu
Retinoblastoma; eye misalignment (strabismus); retinopathy of prematurity; abnormal tearing; nasolacrimal disorders; cataracts; glaucoma.

Peter Lukasiewicz, PhD
1003C McMillan
Phone: 314-362-4284
Neurotransmitters; synapses; retinal function in health and disease; retinal information processing.

Todd P. Margolis, MD, PhD
margolist@vision.wustl.edu
Cellular and molecular mechanisms that regulate herpes simplex infection neurons; inexpensive telemedicine for reducing blindness in underserved populations.

Josh Morgan, PhD
jlmorgan@wustl.edu
Our primary interest in in the synaptic connectivity of visual circuits. Our goal is to understand the structure, development and pathology of the synaptic connectivity that gives rise to vision. Our core approach is to reconstruct neural circuits in the retina and visual thalamus using large-scale 3D electron microscopy.

John R. Pruett Jr., MD, PhD
pruettj@wustl.edu
We use fcMRI to study the development of large-scale functional brain networks in infants at risk for autism spectrum disorder. We are specifically interested in fcMRI correlates of visual joint attention. Our collaborative projects involve fcMRI studies of visual-motor integration.

Kumar Rao, MD
rao@vision.wustl.edu
Surgical and medical therapies for disorders of retina and choroid; novel intraocular markers in uveitis and lymphoma; ultrasound therapy for choroidal melanoma.

Nathan Ravi, MD, PhD, MS, FAAO
ravi@vision.wustl.edu
Our research is directed toward understanding the pathophysiology of presbyopia and developing medical or surgical treatments for this condition.

Alan Shiels, PhD
1128 McMillan
Phone: 314-362-1637
shiels@vision.wustl.edu
Our primary interest is in the molecular genetic mechanisms underlying cataract, glaucoma and associated eye disorders. Specifically, we are interested in the following: (1) genome-wide linkage analysis and targeted (exome, amplicon) sequencing for the discovery of causative or susceptibility genes; and (2) genotype-phenotype and functional expression studies of naturally occurring and gene-targeted mouse models to characterize pathogenic mechanisms.

Carla J. Siegfried, MD
siegfried@vision.wustl.edu
Our research is focused on ocular oxygen metabolism and the development of open-angle glaucoma. We are studying how the oxygen gradient in the eye is altered in disease states as well as noninvasive methods of measuring corneal oxygen consumption.

Florentina Soto, PhD
sotolucasf@vision.wustl.edu
Studies in our laboratory aim to identify the molecular basis of dendrite and axon lamination and synapse formation during development and in the adult retina. In addition, we investigate how these molecules could be involved in the development of retinal pathologies, including retinal degeneration.

Larry Tychsen, MD
2589 Eye Clinic, St. Louis Children's Hospital
Phone: 314-454-6026
Principal Investigator of NIH-funded studies of visual brain maldevelopment and repair in infant primates as well as of clinical studies of visuomotor abnormalities in cerebral palsy and pediatric refractive surgery.

Gregory P. Van Stavern, MD
Vanstaverng@vision.wustl.edu

Neuroimaging of the visual pathways; idiopathic intracranial hypertension; evidence-based medicine and clinical decision making; using the visual system as a model to study neurologic disorders.

Courses

Curriculum courses for Ophthalmology and Visual Sciences are listed below (p. 13).


First Year

Introduction to clinical ophthalmology begins during the first year with a lecture and practicum (peer exam) on taking an ocular history and performing an ocular exam. Emphasis is on ophthalmoscopy. The lectures and the practicum session will be led by Dr. Andrew Lee.

Second Year

During the second year, students will receive a refresher lecture and lab on direct ophthalmoscopy as well as a lecture on ophthalmic manifestations of systemic disease and primary ocular diseases.

Third Year

Third-Year Clerkship Opportunities

During the third year, students are given the opportunity to spend four weeks of their surgery rotation on the ophthalmology service. The students work closely with the ophthalmology residents and review the differential diagnosis of the "red eye," how to interpret an ophthalmologic consult note, and how to handle ocular emergencies. During this rotation, there is again emphasis on the use of the ophthalmoscope. Additional clinical skills introduced to rotating students include the use of the slit lamp and indirect ophthalmoscopy. All third-year students must complete the "Case Studies in Ophthalmology for Medical Students" with rotating faculty and attend the periodic "feedback/oral exam" session with Dr. Andrew Lee.

Third Year/Fourth Year

The Ophthalmology Sub-Internship Rotation occurs during this time. During the month of June prior to their fourth year, students interested in pursuing a career in ophthalmology are encouraged to complete this intensive four-week rotation. Students will have personal indirect ophthalmoscopy lenses available for use on the rotation. Formal didactic sessions and workshops will be used to teach students how to perform a detailed ophthalmic history and exam, including the mastery of advanced slit lamp techniques and indirect fundoscopy. There will be an intense schedule of both live and recorded lectures delivered by ophthalmology faculty members, with post-lecture quizzes. Students will be expected to perform daily required reading. Retention and understanding of reading materials will be gauged by frequent quizzes. Students are strongly encouraged to present a case at the department's grand rounds. By the end of the rotation, students will be expected to function at the level of a first-year ophthalmology resident.

Curriculum Courses

M50 Ophth 801 Ophthalmology

This elective is for senior students who plan to apply for a residency in Ophthalmology. In accordance with any subinternship, medical students will be expected to function at the level of a beginning first-year ophthalmology resident on this rotation. The students will rotate through the resident eye clinic and the subspecialty clinics of the full-time faculty of the Washington University Medical School Department of Ophthalmology and Visual Sciences (e.g., neuro-ophthalmology service, cornea/external disease service, etc.). Students may opt to check out indirect ophthalmoscopy lenses that may be used for the month to facilitate the acquisition of fundoscopy skills. During the rotation, the student's responsibilities range from observation (including observing surgery) to working at a resident level and completing full eye examinations. There will be a rigorous academic curriculum for the rotation, including a weekly case presentation, bi-monthly wet lab sessions with a resident, weekly attendance at grand rounds, and a mix of medical student-oriented and resident-oriented conferences. On day one, students will receive a rotating call schedule for the entire month. A medical student is expected to be present at all times to assist the primary call ophthalmology resident during the rotation. By the end of the four-week rotation, the student is expected to be proficient in taking an ocular history and performing a complete eye exam including slit lamp biomicroscopy and indirect fundoscopy. All students interested in this senior elective must meet with a Course Director in March of year WUMS-III. The final grade of the student is determined by input from the director of the particular service(s) through which the student rotated, plus the case presentations.

M50 Ophth 816 Away Rotation in Ophthalmology

This four-week elective is for senior students from medical schools across the United States who are in good standing at their home institution and who are planning to apply for a residency in ophthalmology. To enroll in this elective, students must first apply online for the elective via the visiting student
application service (VSAS). These applications will be reviewed and invitations will then be sent to individuals to enroll in the elective. Due to large demand, not all eligible away students will be accepted for the rotation. The dates for this elective are not flexible. The students will rotate through the resident eye clinic and the subspecialty clinics of the full time faculty of the Washington University Medical School Department of Ophthalmology and Visual Sciences (e.g., neuro-ophthalmology service, cornea/external disease service, etc.). In exchange for a refundable deposit, students may opt to check-out indirect ophthalmoscopy lenses that may be used for the month to facilitate the acquisition of fundoscopy skills. During the rotation, the student’s responsibilities range from observation (including observing surgery) to working at a resident level and completing full eye examinations. Didactics will include weekly case presentation sessions, weekly attendance at grand rounds, and a mix of medical student-oriented and resident-oriented conferences. Also, there will be medical student-oriented workshops to learn the basics of the slit lamp and indirect ophthalmoscopy. On day one, students will receive a schedule of conferences that they are expected to attend during the month. By the end of the four-week rotation, the student is expected to be proficient in taking an ocular history and performing a complete eye exam including slit lamp biomicroscopy and indirect ophthalmoscopy.

M50 Ophth 900 Research Elective - Ophthalmology
Research opportunities may be available. If interested, please contact the Department of Ophthalmology.