

## Curriculum Vitae

**Keshia S. Elder, OD, MS, FAAO**

### **Office Address:**

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### **Education**

#### **Professional Education**

1994 – 1998	<b>OD</b> University of Alabama at Birmingham
1995 - 1998	<b>MS – Vision Science</b> Master's Thesis Title: The Influence of Visual Suppression on the Pupillary Light Reflex Chair: Paul Gamlin University of Alabama Birmingham
1989 - 1993	<b>BS – Science Teaching Mathematics</b> Clemson University

### **Professional Experience**

2016-present	Director of Externship Program <b>Associate Professor</b> Cornea and Contact Lens School of Optometry University of Alabama at Birmingham
2015-2016	Director of Fourth Year Clinical Rotations <b>Associate Clinical Professor</b> College of Optometry University of Missouri-St. Louis
2011-2016	<b>Associate Clinical Professor</b> College of Optometry University of Missouri-St. Louis
2010-2011	<b>Associate Professor (tenure-track 10/01/10 to 07/31/11)</b> Cornea and Contact Lens School of Optometry University of Alabama at Birmingham

2007-2010	<b>Assistant Professor</b> Cornea and Contact Lens School of Optometry University of Alabama at Birmingham
2004– 2007	<b>Assistant Professor</b> Department of Ophthalmology School of Medicine University of South Carolina
2003-2004	Optometrist Pearle Vision Columbia, SC
2001-2003	Head Optometrist Dilorenzo TRICARE Health Clinic United States Navy Arlington, VA
2001-2001	Head Optometrist Naval Medical Clinic United States Navy Annapolis, MD
1998-2001	Assistant Head Optometrist Naval Medical Clinic United States Navy Annapolis, MD
1994-1994	Teacher Mathematics A.C. Flora High School Columbia, SC

## **Research**

### **Publications**

Peer-reviewed journal articles:

**Elder KS**, Benjamin WJ (2009) Prototype Base Curve Attachment for the Topographer: What will Replace the Vanishing Radiuscope? *Optometry*. 2009. Mar; 80(3):131-7.

Non-peer-reviewed articles:

**Elder KS**. MGD: Not the End of Contact Lens Wear. Review of Cornea & Contact Lenses .2011. Mar; 144(2).

**Elder KS**. Rare infections in GP wear. Review of Cornea & Contact Lenses .2009. Mar; 146(2):25-7.

**Elder KS**. Management of ocular disorders with bandage contact lenses. Review of Cornea & Contact Lenses. 2008. Mar; 144(2):30-4.

## **Abstracts**

G. Chu, B. Fink, **K. Elder**, J. Leasher, L. Kalaczinski, D. Russo. Diversity Trends in our Schools and College of Optometry. Paper presented at American Academy of Optometry, Anaheim, CA, November 9-12, 2016. Paper Number 160059.

**K.S. Elder**, C.V. Mickles, J. Azhar, A. Belloli, S. Hans. The Effect of Artificial Tear Treatment on Lid Wiper Epitheliopathy and Ocular Surface Staining in Contact Lens Wearers. American Academy of Optometry, New Orleans, LA, October 7-10, 2015. Abstract Number 155246.

C. V. Mickles, S. Narayanan, **K.S. Elder**, A. Belloli, S. Hans. The Effect of Lipid-Based Artificial Tears on Conquering Contact Lens Discomfort. Paper presented at American Academy of Optometry, New Orleans, LA, October 7-10, 2015. Paper Number 150088.

T.P. Than, R.J. Fullard, **K.S. Elder**, J.R. Sims. Comparison of Tear Osmolarity to other Ocular Surface Disease Indicators. American Academy of Optometry, Phoenix, AZ, October 24-27, 2012. Abstract Number 125712.

J. L. Bradley, **K. S. Elder**, T. P. Than, R. J. Fullard. Conjunctival Gene Expression Patterns in Dry Eye; Real Time PCR and Beyond. ARVO 2012, Fort Lauderdale, Florida. May 6-10, 2012. Abstract Number 538.

**K.S. Elder**, R. Fullard, K. Tran, N. Guyette, P. Shin, B. Curtis Tear Cytokine Profiles and Conjunctival Cytokine Expression in Normal and Dry Eye Patients. ARVO 2011. Fort Lauderdale, Florida. May 1-5, 2011. Abstract Number 3801

T. P. Than, N. Guyette, K. Tran, **K. S. Elder**, J. Sims, L. Kehinde, P. Shin, L. Williams, J. Bradley, R. Fullard. Correlations between Tear IP-10 and other Biomarkers in Normal and Dry Eye Patients. ARVO 2011. Fort Lauderdale, Florida. May 1-5, 2011. Abstract Number 3807.

R. J. Fullard, L.E. Kehinde, **K.S Elder**, M.K. Tran, N.M. Guyette. Magnetic Beads Produce Significant Artifacts in Luminex Tear Cytokine Assay. ARVO 2010. Fort Lauderdale, Florida. May 2-6, 2010. Abstract Number 3378.

L.E. Kehinde, **K.S. Elder**, R.F. Fullard. Effects of daily versus 30-day continuous contact lens wear on tear cytokine levels. ARVO. 2009. Fort Lauderdale, Florida. May 3- 7, 2009. Abstract Number 5656.

**K. S. Elder**, W.J. Benjamin, BC Focus Group. What will replace the vanishing radiuscope? ARVO. 2008. Fort Lauderdale, Florida. April 27-May 1, 2008. Abstract Number 4844.

**K. S. Elder**, H. Tseng, R.M. Davis. Evaluation of the efficacy, stability, safety and predictability of laser epithelial keratomileusis with the Bausch and Lomb Technolas 217 Zyoptix 100 HZ excimer laser system. ARVO. 2007. Fort Lauderdale, Florida. May 6-10, 2007. Abstract Number 5321.

**E.K. Sims**, P.D.R. Gamlin. The influence of visual suppression on the pupillary light reflex. ARVO. 1998. Fort Lauderdale, Florida. May 10-15, 1998. Abstract Number 4850.

## **Presentations**

**K. S. Elder**, R.J. Fullard, E.E. Brown, T.M. Beasley, D.T. Redden, R.P. Kimberly. Ocular Inflammation in African American and European American Patients with SLE. UAB CCTS Annual Scientific Symposium. November 3, 2010. Poster

**K.S. Elder**, W.J. Benjamin. Base curve attachment: Aspheric Surfaces. American Academy of Optometry. Orlando, Florida. November 2009. Poster.

- K. S. Elder**, W.J. Benjamin. Resolution of corneal Molding without Discontinuance of Soft Toric Wear. American Academy of Optometry. Anaheim, California. October 2008. Poster.
- K. S. Elder**, W. J. Benjamin, BC Focus Group. Prototype base curve attachment for topographer. Global Keratoconus Congress. Las Vegas, Nevada. January 2008. Poster.

## **Research Grants**

Title: Program Project in the Genetics of SLE (5 P01 AR49084-08; [Research Supplements to Promote Diversity in Health-Related Research])

Trainee: Keshia S. Elder, OD

PI: Robert Kimberly, MD

Funding Source: NIH/NIAMS

Total Amount Requested: \$228,686 (75% salary support)

Dates: 06/01/2010-07/31/2011

Title: Reducing Visual Impairment due to Uncorrected Refractive Error in the Birmingham Homeless Population.

PI: Keshia S. Elder, OD

Funding Source: AOA Healthy Eyes Healthy People

Dates: 12/10-07/11

Status- funded \$4100

Title: Assay of multiple inflammatory biomarkers for use in predictive modeling of ocular surface disease states.

PI: Roderick Fullard, PhD, OD

Funding Source: EyeSight Foundation of Alabama

Dates: 07/01/2010-07/31/2011

Status-funded \$ 118,062

Title: Ocular Inflammation in African American and European American Patients with SLE

PI: Keshia S. Elder, OD

Funding Source: UAB Minority Health Research Center/Center for Clinical and Translational Science

Dates: 10/01/2009-07/31/2011

Status- funded \$60,000

Title: Comparative Effectiveness of Two Different Ophthalmic Dry Eye Treatments in Reducing Tear Levels of Inflammatory Cytokines

Co-Investigator: Keshia S. Elder, OD

PI: Tammy Than, OD and Roderick Fullard, OD, PhD

Funding Source: Vision Service Plan

Total amount: \$40,000

Dates: 02/01/09 – 12/31/10

Status-funded

Title: Shelter Your Vision: Screenings for the Homeless

PI: Keshia S. Elder, OD

Funding Source: AOA Healthy Eyes Healthy People

Total Amount Requested: \$5,000

Dates: 04/09-03/10

Status- funded \$2500

Title: Effects of Daily versus 30-day Continuous Contact Lens Wear on Tear Cytokine Levels  
 PI: Keshia S. Elder, OD  
 Funding Source: Clinical Research Advisory Committee, UAB School of Optometry  
 Total Amount: \$9,850  
 Dates: 10/01/08-09/30/09  
 Status-funded

Title: Evaluation of Lipid Deposition on Contact Lenses Worn 7 Days Extended Wear  
 PI: Keshia S. Elder, OD  
 Funding Source: Alcon Research Laboratories  
 Total Amount: \$12,949  
 Dates: 07/31/08-05/01/09  
 Status-funded

Title: Evaluation of Lipid Deposition on Contact Lenses Worn 10 Hours  
 PI: Keshia S. Elder, OD  
 Funding Source: Alcon Research Laboratories  
 Total Amount Requested: \$13,470  
 Dates: 07/03/08-07/02/09  
 Status-funded

### **Additional Training:**

11/08/2016	ACOE Consultant Training
08/2012-05/2013	University of Missouri Faculty Scholars Program
10/19/2010	UAB Research Repository Presentation
10/22/2010	UAB MHRC Manuscript Writing Workshop
02/22/2010	Scientific Writing Seminar Series: Changes in the NIH Application/Review Process
07/14/2009	Blackboard Vista 4 Basic Workshop
07/13/2009	Scientific Writing Seminar Series: Developing Scientific Presentations
05/21/2009	Workshop: Improving Your Effective Manuscript Review Writing
01/2009- 06/2009	Clinical and Translational Science Training Program (CTS)
11/02, 11/09, 11/16, and 11/23/07	Scientific Writing Seminar Series: Developing Extramural Applications
09/10 and 09/11/07	Scientific Writing Seminar Series: Developing Scientific Manuscripts

## **Teaching**

### **Course Development and Teaching Contributions-UAB School of Optometry**

Course	Topic	Date
<b>OPT 325-</b> Clinical Management of Vision Problems	Coursemaster	Spring 2017
<b>OPT 222L-</b> Diseases of the Anterior Segment	Lab Instructor	Spring 2017
<b>OPT 312L-</b> Contact Lenses	Lab Instructor	Fall 2017 (Sept-Dec)
<b>OPT 312-</b> Contact Lenses	Guest Lecturer	Fall 2017 (Sept-Dec)
<b>OPT 211L-</b> CEVS I	Lab Instructor	Fall 2017 (Sept-Dec)

**Course Development and Teaching Contributions-UMSL College of Optometry**

<b>Course</b>	<b>Topic</b>	<b>Date</b>
<b>OPTOM 8460-</b> Foundations of Ocular and Systemic Disease and Management III	Instructor	Summer 2015/ Summer 2016
<b>OPTOM 8570-</b> Foundations of Ocular and Systemic Disease and Management III	Instructor	Fall 2012
<b>OPTOM 8370-</b> Foundations of Ocular and Systemic Disease and Management II	Instructor	Spring 2012-Spring 2016
<b>Open Pre-Clinic</b>	Lab Instructor	Spring 2012
<b>OPTOM 8380-</b> Clinical Optometry III	Reviewed student eye examination submissions	Spring 2012
<b>OPTOM 8391-</b> Clinical Topics in Contact Lenses	Preliminary Evaluation	Spring 2012
<b>OPTOM 8090-</b> Scenerio Based Discovery	Instructor	Fall 2011
<b>Open Pre-Clinic</b>	Lab Instructor	Fall 2011
<b>OPTOM 8570-</b> Foundations of Ocular and Systemic Disease and Management III	The Cloudy Cornea	Fall 2011- present

**Course Development and Teaching Contributions-UAB School of Optometry (2007-2011)**

<b>Course</b>	<b>Topic</b>	<b>Date</b>
<b>OPT 343-</b> Clinical Case Conference	Instructor	Spring B 2010
<b>OPT 328-</b> Public Health Optometry II	Coursemaster	Winter 2008-present
<b>OPT 321-</b> Contact Lenses II	Orthokeratology	Fall 2007-present
<b>OPT 233-</b> Ocular Pharmacology	Ophthalmic Dyes	Spring 2008-Spring 2009
<b>OPT 233-</b> Ocular Pharmacology	Preparations for Dry Eye and Ocular Surface Disease	Spring 2008
<b>OPT 233-</b> Ocular Pharmacology	Local Anesthetics	Spring 2008
<b>OPT-233-</b> Ocular Pharmacology	Topical and Regional Anesthesia	Spring 2008
<b>OPT 232-</b> Cornea and External Disease	Diseases of the Lacrimal System	Spring 2008-Spring 2009
<b>OPT 232-</b> Cornea and External Disease	Corneal Dysgeneses, Dystrophies, and Degenerations	Spring 2008-Spring 2009
<b>OPT 237-</b> Contact Lenses I	Corneal Topography	Spring 2008-present

**Seminars and Lectures-University of South Carolina Department of Ophthalmology**

<b>Audience</b>	<b>Topic</b>	<b>Date</b>
Ophthalmology Residents	Retinoscopy and Refraction	July 2004/July 2007
Ophthalmology Residents	Low Vision OKAP Review	April 2005/April 2006/March 2007
Ophthalmic Technicians	Contact Lenses	September 2005
Ophthalmology Residents	Contact Lenses OKAP Review	April 2005/March 2006/April 2007
Ophthalmology Residents	Soft Contact Lenses	May 2006
Ophthalmic Technicians	Retinoscopy and Refraction	May 2006
Ophthalmology Residents	Rigid Gas Permeable Contact Lenses Fitting	July 2006
Ophthalmology Residents	OKAP Review	March 2007
Ophthalmology Residents	Rigid Gas Permeable and Soft Contact Lenses	June 2007
Ophthalmology Residents	Contact Lenses 101	July 2007
Ophthalmology Residents	Contact Lenses Fitting with Lab	July 2007
Ophthalmology Residents	Soft Contact Lenses	August 2007

**Laboratory Teaching-UAB School of Optometry (2007-2011)**

Course	Topic	Date
OPT 310 –Advanced Clinical Procedures	Laboratory Instructor	Fall 2008
OPT 321-Contact Lenses II	Laboratory Instructor	Fall 2007-present
OPT 237- Contact Lenses I	Laboratory Instructor	Spring 2008- present

**Residency Seminars**

Topic	Date
Current Topics in Contact Lenses	08/06/2008-7/21/2011

**Community Seminars**

Topic	Organization	Date
Diabetes and the Eye	Myrtle Hilliard Davis Health Center St. Louis, MO	07/10/2013
Adult Vision	Community Public Health Certificate Program; UAB School of Public Health	03/02/2009

**Teaching Improvement Activities**

Topic	Date
Coopervision Educator's Meeting	01/2015
Johnson and Johnson Contact Lens and Primary Care Educator's Meeting	02/2013
Alcon Academy for Eyecare Excellence	04/2012
Vistakon Contact Lens Educator's Meeting	02/2009
Master Teacher Training Two Day Workshop	12/2007
Bausch & Lomb Optometric Refractive Education Symposium	05/2005

**Service****Department**

Dates Served	Committee Name	Affiliation	Designation & Position
10/2008-07/2011	Optometry Faculty Advisory Committee	UAB School of Optometry	Committee Member
10/2008-09/2010	Admissions Committee	UAB School of Optometry	Committee Member
02/2008 -10/2008	Optical Advisory Committee	UAB School of Optometry	Committee Member
10/2007 –07/2011	Continuing Education Advisory Committee	UAB School of Optometry	Committee Member
10/2007 – 07/2011	Clinical Research Advisory Committee	UAB School of Optometry	Committee Member
9/2007-07/2011	National Optometric Student Association	UAB National Optometric Student Association	Faculty Advisor; Provide leadership and mentoring for students
09/07, 02/09, 02/10, 02/11	UABSO Open House/Minority Opportunities Seminar	UAB School of Optometry	Presentation to minority attendees about UABSO; conducted clinic tours

**School**

<b>Dates Served</b>	<b>Committee Name</b>	<b>Affiliation</b>	<b>Designation/Role</b>
09/2016-present	Curriculum Committee	UAB School of Optometry	Committee Member
01/2017-present	Continuing Education Committee	UAB School of Optometry	Committee Member
01/2017-present	Admissions Committee	UAB School of Optometry	Committee Member
01/2017-present	Faculty Advisory Committee	UAB School of Optometry	Committee Member
01/2017-present	Clinic Oversight Committee	UAB School of Optometry	Committee Member
10/2008-present	Equity and Diversity	UAB School of Optometry	Committee Chair
10/2007-10/2008	Equity and Diversity	UAB School of Optometry	Committee Member

**College**

<b>Dates Served</b>	<b>Committee Name</b>	<b>Affiliation</b>	<b>Designation &amp; Position</b>
07/13- 07/15	Leadership Committee	UMSL College of Optometry	Faculty Chair
07/13-07/16	Admissions Committee	UMSL College of Optometry	Committee Member
07/12-07/16	Faculty Affairs	UMSL College of Optometry	Committee Member
07/12-07/14	Facilities, Libraries, Information Technology	UMSL College of Optometry	Committee Member
03/12-07/16	Gold Key Optometry Honor Society	UMSL College of Optometry	Faculty Advisor

**University**

<b>Dates Served</b>	<b>Committee Name</b>	<b>Affiliation</b>	<b>Designation/Role</b>
08/12-08/14	Assessment of Educational Outcomes	UMSL	Committee Member
08/12-07/16	Curriculum and Instruction	UMSL	Committee Member
07/09-07/11	Commission for the Status of Women	UAB	UABSO representative
05/08	Graduation	UAB	Faculty Marshall

**Community**

<b>Dates Served</b>	<b>Service</b>	<b>Affiliation</b>	<b>Role</b>
12/16	Gift of Sight	UABSO	Preceptor for students
12/09-07/12	Juanakee Adams Initiative for Excellent Eye Care and Optimum Health	Juanakee Adams Initiative	Advisory Board
03/09	Vision Screening (Birmingham, AL)	Jessie's Place	Performed screenings, supervised students at screening
09/08	Vision Screening (Birmingham, AL)	Baptist Health System/UABSO	Performed screenings, supervised students at screening
09/08	Vision Screening (Hoover, AL)	Deer Valley Elementary School	Performed screenings on elementary school students
08/08-present	Explorers Post- Monthly lecture and workshop presented Optometry related topics to students in the Birmingham area (Birmingham, AL)	UABSO Explorers Post	Presented two lectures to participants during the year. Assisted with practical portion of each monthly presentation
07/08	Vision Screening (Hoover, AL)	Cahaba Valley	Performed vision screenings on screening participants
04/08	NBC 13 Health and Wellness Fair (Birmingham, AL)	NBC 13	Performed vision screenings on screening participants, supervised students at screening
03/08	Annual Health Fair and Conference (Fairfield, AL)	First Baptist Church Fairfield	Performed vision screenings on screening participants, supervised students at screening
11/07	Vision Screening (Black Belt, AL)	RADGI	Performed comprehensive exams on screening participants, supervised students at screening



**State**

<b>Dates Served</b>	<b>Service</b>	<b>Affiliation</b>	<b>Role</b>
2/2009-07/2011	Alabama Healthy Eyes Healthy People	American Optometric Association	State Consultant
3/2008 – 07/2011	Treasurer	Alabama Chapter National Optometric Association	Provide leadership and services in maintaining organization finances
3/2008 – 07/2011	Scholarship Committee	Alabama Chapter National Optometric Association	Review and make recommendations for scholarships
7/2005-7/2007	South Carolina Eye Foundation	USC School of Medicine	Board of Directors

**National**

<b>Dates Served</b>	<b>Service</b>	<b>Affiliation</b>	<b>Role</b>
12/2016-present	ASCO Culture Task Force	Association for Schools and Colleges of Optometry	Committee Member
07/2015-present	ASCO Diversity and Cultural Competency Committee	Association for Schools and Colleges of Optometry	Committee Member
01/2013-present	AAO Lectures and Workshops Committee	American Academy of Optometry	Select education program presented at AAO annual meetings.
09/2012-present	Editorial Board	Optometric Education	Review manuscripts; Review grant proposals; Help determine award recipients; Other tasks as needed.
02/2011-12/2012	AAO Admittance Committee	American Academy of Optometry	Evaluate written work and oral presentations of candidates for Fellowship into AAO
02/2010-07/2011	AOA Faculty Relations Committee	American Optometric Association	UABSO Representative
05/2009	Manuscript Reviewer	Optometric Management	Reviewed manuscript
10/2008 – 01/2013	Education Quality Assurance Committee	American Academy of Optometry	Committee Member; Help maintain high quality of CE at Annual Meetings
10/2008-present	Membership Support	American Academy of Optometry	Provide information at Annual Meeting
09/2008-06/2012	Manuscript Reviewer	American Optometric Association. <i>Optometry</i> .	Review manuscripts
2/2006-07/2011	Clinical Examiner	National Board of Examiners in Optometry	Examiner
07/1998-07/2003	Served five years active duty in the United States Navy. Received an Army Achievement Medal for medical support during the Pentagon terrorist attack. Received a Navy Commendation Medal for exemplary leadership and military service. Received a Navy Achievement Medal for leadership role in NMCL Annapolis Multicultural Committee.	United States Navy United States Army	Medical Service Corps Optometrist

**Continuing Education Seminars**

<b>Dates</b>	<b>Topic</b>	<b>Affiliation</b>
03/05/2015	Alternative Tonometry Workshop	Southern Council of Optometrists
03/06/2015	Tonometry Workshop	Southern Council of Optometrists
03/01/2013	Tonometry Workshop	Southern Council of Optometrists
02/28/2013	Tonometry	Southern Council of Optometrists
02/28/2013	Tonometry Workshop	Southern Council of Optometrists
03/03/2012	What Instrument Do I Use?	Southern Council of Optometrists
03/01/2012	The Pressure is on! Tonometry Workshop	Southern Council of Optometrists
03/01/2012	Evaluating the Dry Eye Patient Lecture and Workshop	Southern Council of Optometrists
03/01/2012	Tonometry and Pachymetry	Southern Council of Optometrists
03/04/2011	Workshop: A Hands-on Approach to Tackling Soft Torics	Southern Council of Optometrists
03/03/2011	Workshop: Tonometry and Pachymetry	Southern Council of Optometrists
03/03/2011	Basic Assisting Tonometry and Pachymetry	Southern Council of Optometrists
11/19/2010	Workshop: In Office Laboratory Testing for the Optometrist	American Academy of Optometry
02/12 /2010	Dry Eye and the Slit Lamp	Southern Council of Optometrists
02/12 /2010	Tonometry Workshop	Southern Council of Optometrists
02/12 /2010	Advanced Slit Lamp Workshop	Southern Council of Optometrists
02/ 11/2010	Basic Assisting Tonometry and Pachymetry	Southern Council of Optometrists
02/11 /2010	Basic Slit Lamp Workshop	Southern Council of Optometrists
11/14/2009	How Do Policies Affect Optometry and How Does Optometry Effect Policy?	American Academy of Optometry
11/13/2009	Workshop: In Office Laboratory Testing for the Optometrist	American Academy of Optometry
10/18/2009	Therapeutic uses of soft and rigid contact lenses- Managing anterior segment disorders	Nebraska Optometric Association
10/18/2009	Contact lens update- What's new in the soft and rigid lens arena	Nebraska Optometric Association
10/18/2009	Retaining contact lens patients- Strategies for dry eye management	Nebraska Optometric Association
05/03/2009	Moderator for: Clinical Grand Rounds from Residents Past and Present Residency Presentations	UAB School of Optometry Primary Care Update
10/13/2007	Anterior Segment Update	UAB School of Optometry

**Professional Affiliations**

<b>Dates Served</b>	<b>Affiliation</b>
2017-present	Alabama Optometric Association
2011-2016	Missouri Optometric Association
2007-2011	Association for Research in Vision and Ophthalmology
2007 – 2011	Alabama Optometric Association
2008-2011	Alabama Chapter National Optometric Association, treasurer
2007 – 2011	Birmingham Area Optometric Society
2007-present	Fellow, American Academy of Optometry
2003-2007	South Carolina Optometric Association
2003-2007	Midlands Optometric Society
1998-2003	Armed Forces Optometric Society
1998– present	American Optometric Association

## **Honors and Awards**

<b>Dates</b>	<b>Activity</b>	<b>Affiliation</b>
2009	FASEB MARC Travel Award to attend American Association of Immunologists 2009 Introductory Course in Immunology	Federation of American Societies for Experimental Biology/ Minority Access to Research Careers
2008	Second Place Award, Scientific Poster Session	Global Keratoconus Congress (International Meeting)
2007	Fellow of the American Academy of Optometry	American Academy of Optometry
2001	Army Achievement Medal	United States Army
2001	Navy and Marine Corps Commendation Medal	United States Navy
2001	Navy and Marine Corps Achievement Medal	United States Navy
1997	National Optometric Association Student of the Year	National Optometric Association
1997	Dr. Lester Caplan CIBA Vision Corporation Endowed Scholarship	CIBAVision/ UAB School of Optometry
1995-1998	Beta Sigma Kappa Optometric Honor Society	Beta Sigma Kappa
1995-1998	United States Navy Health Professions Scholar	United States Navy
1991	Pi Mu Epsilon Honorary Math Fraternity	Clemson University
1991	Sue King Dunkle Memorial Award for Excellence in Mathematics	Clemson University
1989-1993	Palmetto Fellows Scholar	State of South Carolina

## **Licensure and Board Certification**

2017-present	State of Alabama Optometric Teaching License
2011-2016	State of Missouri Therapeutic Optometry License
2010-2011	State of Alabama Therapeutic Optometry License
2007-2010	State of Alabama Optometric Teaching License
2000-present	State of South Carolina Therapeutic Optometry License
1998-2003	State of Maryland Therapeutic Optometry License
1998	National Board of Examiners in Optometry TMOD