

CURRICULUM VITAE  
The Johns Hopkins University School of Medicine

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Judith E. Goldstein, O.D.

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November 15, 2017

## DEMOGRAPHIC AND PERSONAL INFORMATION

### Current Appointments

2017-present Associate Professor, Department of Ophthalmology, Johns Hopkins University School of Medicine  
 2017-present Associate Professor, Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine  
 2006-present Director of Low Vision Clinical Services, Department of Ophthalmology, Johns Hopkins University School of Medicine  
 2008-present Director of Lions Low Vision Fellowship Program, Department of Ophthalmology, Johns Hopkins University School of Medicine  
 2012-present Division Education Champion, Low Vision, Department of Ophthalmology, Johns Hopkins University School of Medicine

### Personal Data

Low Vision  
 Ophthalmology  
 Wilmer 317  
 600 North Wolfe Street  
 Baltimore, MD 21287  
 Tel 410-955-0580  
 Fax 410-502-6707

### Education and Training

Undergraduate  
 1989 B.A. State University of New York, Binghamton, NY, joint-degree program (degree awarded 1990)

Doctoral/graduate  
 1993 O.D., State University of New York College of Optometry, New York, NY

Postdoctoral  
 1994 Resident, Ocular Disease, Baltimore Veterans Administration Medical Center, Baltimore, MD

### Professional Experience

1994-2001 Associate Medical Director, Pioneer EyeCare, Baltimore, MD  
 1995-2003 Attending Optometrist (PT), Eye Clinic, Baltimore Veterans Administration Medical Center, Baltimore, MD  
 1996-2006 Low Vision Rehabilitation Specialist, Private Practice (multi-site practice affiliations), MD  
 Baltimore Washington Eye Center, Glen Burnie, MD  
 Cumberland Valley Retina Consultants, Hagerstown, MD  
 Elman Retina Group, Rosedale and Pikesville, MD  
 Parris-Castoro Eye Care Center, Bel Air, MD  
 Physicians Eye Care Center, Ellicott City and Catonsville, MD  
 Seidenberg-Protzko Eye Associates, Havre de Grace and Bel Air, MD  
 Alan Robin, M.D., P.A., Baltimore, MD  
 National Retina Institute, Baltimore, MD

1999-2006	Director of Low Vision Services, Clinical Instructor of Ophthalmology, University of Maryland Medical Center, Baltimore, MD
2006-2017	Assistant Professor, Department of Ophthalmology, Johns Hopkins University School of Medicine
2006-2017	Assistant Professor, Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine
2006-present	Director of Low Vision Clinical Services, Department of Ophthalmology, Johns Hopkins University School of Medicine
2008- present	Director of Lions Low Vision Fellowship Program, Department of Ophthalmology, Johns Hopkins University School of Medicine

## PUBLICATIONS:

### Original Research [OR]

1. Sherman, J., Bodis-Wollner, I., Milch, F., **Goldstein, J.**, and Brannan, J.: Retinal periphlebitis in multiple sclerosis, *Journal of the American Optometric Association*, 1993; 64:475–8. *I wrote the outline of the article, performed literature search and edited final draft.*
2. Reed, D., Cox, S., and **Goldstein, J.**: Early choroidal neovascular membrane in a patient with concurrent diabetic retinopathy, *The Southern Journal of Optometry*, 1993.
3. Massof RW, Ahmadian L, Grover LL, Deremeik JT, **Goldstein JE**, Rainey C, Epstein C, Barnett GD. The Activity Inventory: An adaptive visual function questionnaire. *Optom Vis Sci* 2007;84(8):763-774.
4. Malkin A, **Goldstein JE**, Massof RW. Interpretation of Health and Vision Utilities in Low Vision Patients. *Optom Vis Sci* 2012;89(3):288-295. *I was the PI of the network responsible for research study. I guided the research, writing and final editing of article.*
5. **Goldstein JE**, Massof RW, Deremeik JT, Braudway S, Jackson ML, Kehler KB, Primo SA, Sunness JS, Low Vision Research Network Study Group. Baseline Traits of Low Vision Patients Served by Private Outpatient Clinical Centers in the United States. *Arch Ophthalmol* 2012;130(8):1028-1037.
6. Chan TL, **Goldstein JE**, Massof RW, Low Vision Research Network Study Group. Comparison of Clinician-Predicted to Measured Low Vision Outcomes. *Optom Vis Sci* 2013;90:8:776-787. *I was the PI of the network responsible for research study. I guided the research, writing and final editing of article.*
7. Malkin AG, **Goldstein JE**, Perlmutter MS, Massof RW, Low Vision Research Network Study Group. Responsiveness of the EQ-5D to the Effects of Low Vision Rehabilitation. *Optom Vis Sci* 2013;90:8:799-805. *I was the PI of the network responsible for research study. I guided the research, writing and final editing of article.*
8. Brown JC, \***Goldstein JE**, Chan TL, Massof RW, Ramulu P, Low Vision Research Network Study Group. Characterizing Functional Complaints in Patients Seeking Outpatient Low Vision Services in the United States. *Ophthalmology*, 2014;121(8):1655-1662. \*Corresponding author. *I was the PI of the network responsible for the data generated for this paper. I guided the research and performed extensive writing and editing of the manuscript.*
9. **Goldstein JE**, Chun, MW, Fletcher DC, Deremeik JT, Massof RW, Low Vision Research Network Study Group. Visual Ability of Patients Seeking Outpatient Services in the United States. *JAMA Ophthalmol* 2014;132(10):1169-77.
10. **Goldstein JE**, Jackson ML, Fox SM, Deremeik JT, Massof RW for the Low Vision Research Network Study Group. Clinically Meaningful Rehabilitation Outcomes of Low Vision Patients Served by Outpatient Clinical Centers in the United States. *JAMA Ophthalmol*. 2015;133(7):762-769.
11. Chan TL, Perlmutter MS, Andrews M, Sunness JS, **Goldstein JE**, Massof RW, Low Vision Research Network Study Group. Equating Visual Function Scales to Facilitate Reporting of Medicare Functional G-Code Severity/Complexity Modifiers for Low-Vision Patients. *Arch Phys Med Rehabil*. 2015;96(10):1859-1865. *I was the PI of the network responsible for the data generated for this paper and I also assisted in final editing of the article.*
12. Malkin AG, **Goldstein JE**, Massof RW, Low Vision Research Network Study Group. Multi-Variable regression model of the EQ-5D in patients seeking outpatient low vision rehabilitation. *Ophthalmol Epi* 2017 [Epub ahead of print]. *I was the PI of the network responsible for research study. I guided the research, writing and final editing of article.*
13. Wittich W, Lorenzini MC, Markowitz SN, Tolentino M, Gartner SA, **Goldstein JE**, Dagnelie G. The Effect of a Low Vision Head-mounted Device on Visual Function. *OVS* 2018;95(9):774-784.
14. **Goldstein JE**, Fenwick E, Finger RP, Gothwal V, Jackson ML, Lamoureux E, Rees G, Massof R. Calibrating the Impact of Vision Impairment (IVI): Creation of a Sample-Independent Visual Function Measure for Patient-Centered Outcomes Research. *Transl Vis Sci Technol*. 2018;7(6).
15. **Goldstein JE**, Edmonds SE, Spirm MJ, Regillo CD. Low-vision rehabilitation specialists: improving our patients' quality of life. *RetinaTimes*. 2018;36(5):42-44.

16. Swenor BK, Guo X, Boland MV, **Goldstein JE**. Leveraging Electronic Health Records to Identify and Characterize Patients with Low Vision. *Ophthalmic Epidemiol.* 2019;26(2):132-139.

Review Articles [RA]

None

Case Reports [CR]

None

Book Chapters, Monographs [BC]

1. **Goldstein J.** and Sherman, J.: Pituitary tumors, *Optometry Clinics*, 1993; 3(3):101–125.
2. **Goldstein J.**: Glaucoma Filtering Surgery, in *Glaucoma Handbook*, Anthony B. Litwak, Ed., Butterworth Heinemann, Boston, 2001; 199-216.
3. Solomon D and **Goldstein J.**: Visual, Oculomotor and Vestibular Deficits” in *Stroke Recovery and Rehabilitation*, Demos Medical Publishing, New York, 2009.
4. Massof RW, Maguire MG, Geruschat DR, Deremeik JT, **Goldstein JE**, Warren M, Ervin AM, Stelmack JA, Ramulu PY, Hawkins BS, and Frick KD.: Visual Disability in the Elderly: Implications for Visual Rehabilitation, Springer-Verlag, Berlin, 2013.
5. **Goldstein J**, Ross N, Kheradmand A, Gold D.: Visual, Oculomotor and Vestibular Deficits” in *Stroke Recovery and Rehabilitation*, Demos Medical Publishing, New York, 2<sup>nd</sup> ed; 2015.

Books, Textbooks [BK]

None

Media Releases or Interviews [MR]

- |         |  |
|---------|--|
| 6/27/13 | Interviewed and appeared on <i>NBC Nightly News with Brian Williams</i> to highlight attainable rehabilitation accomplishments for AMD patients with the implantable miniature telescope. <a href="http://www.nbcnews.com/health/tiny-telescope-implant-helps-restore-age-related-vision-loss-6C10474402">http://www.nbcnews.com/health/tiny-telescope-implant-helps-restore-age-related-vision-loss-6C10474402</a>                |
| 12/9/14 | Invited guest appearance on <i>The Diane Rehm Show</i> to discuss “New treatments for macular degeneration, a leading cause of blindness”. Original one-hour interview at 11 AM. <a href="http://thedianerehmshow.org/shows/2014-12-09/new_treatments_for_macular_degeneration_a_leading_cause_of_blindness">http://thedianerehmshow.org/shows/2014-12-09/new_treatments_for_macular_degeneration_a_leading_cause_of_blindness</a> |

Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)

- |        |  |
|--------|--|
| 4/2/16 | Interviewed by Julie Rosenthal MD, retinal specialist from Kellogg Eye Center and appeared in <i>NPR “Your Health”</i> , “My Patients Are Losing Their Sight. How Can I Help Them Cope”. <a href="http://www.npr.org/sections/health-shots/2016/03/02/468754720/my-patients-are-losing-their-sight-how-can-i-help-them-cope">http://www.npr.org/sections/health-shots/2016/03/02/468754720/my-patients-are-losing-their-sight-how-can-i-help-them-cope</a> |
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**FUNDING**

**EXTRAMURAL Funding**

Research Extramural Funding - Current

- |                 |  |
|-----------------|--|
| 10/2/17-10/2/18 | <b>Electronic advisory for Low Vision Referral (EVOLVE- Phase II – A Pilot Study)</b> . Single-center pilot study to examine the feasibility, use and impact of an electronic Best Practice Advisory recommending low vision rehabilitation services among ophthalmology faculty at Wilmer<br>Readers Digest Partners for Sight Foundation<br>Total budget \$70,000<br>Role: PI, 10% |
|-----------------|--|

Research Extramural Funding - Previous

- |                 |  |
|-----------------|--|
| 1/1/16-12/31/17 | Multi-center trial of eSight head-mounted technology in central vision impairment<br>eSight Corporation – Industry sponsored study |
|-----------------|--|

\$72,437  
Role: PI, 3%

2/25/16-2/28/17 Service Uptake of Low Vision Rehabilitation Services (SUPER Phase I). Single-center study to examine the incidence, prevalence and uptake of low vision services by patients at Wilmer Readers Digest Partners for Sight Foundation  
Total budget \$6,138  
Role: PI, 1%

1/1/08-12/31/10 Grant to plan a multi-center observation study on measuring outcomes in low vision rehabilitation  
1R34EY01869601  
NIH R34  
PI: Robert Massof, PhD  
Co-Investigator – Judith Goldstein; effort 5%

2007-2010 Multi-center observational study to evaluate the effectiveness of visual rehabilitation service across the U.S.  
Readers Digest Partners for Sight Foundation  
Lions Vision Research Foundation  
PI: Robert Massof, PhD  
Co-Investigator – Judith Goldstein; effort 20%

#### Educational Extramural Funding

1/1/2018-2021 Residency Education Project in Low Vision  
Sponsor: Lighthouse Guild International  
Total budget \$150,000  
Role: PI

#### Clinical Extramural Funding

None

#### System Innovation or Quality Improvement Extramural Funding

None

#### Other Extramural Funding, including philanthropy

None

#### **INTRAMURAL Funding**

##### Research Intramural Funding - Current

12/17/15-present Pilot study examining the feasibility of recruiting patients with AMD for a larger multi-center trial evaluating the timing of LVR in Anti-VEGF Therapy  
Wilmer Pooled Professor Fund  
Total budget \$69,328  
Role: PI, 1.2 cal mos over 1 year

##### Research Intramural Funding – Previous

2011-2014 Developing and Validating a Prosthetic Low Vision Rehabilitation Curriculum  
R01EY021220  
NIH  
PI: Gislin Dagnelie, PhD  
Co-Investigator – Judith Goldstein; effort 5%

2012 Macular Pigment Optical Density in People with Retinal Degeneration  
Foundation for Fighting Blindness and the Clark Charitable Foundation  
PI: Hendrik Scholl, MD

2013-2015 Co-Investigator – Judith Goldstein; effort – unsupported  
Assessing Feasibility of Tele-Rehabilitation in Low Vision Patients  
JHSPH Faculty Innovation Fund  
PI: Tianjing Li, PhD  
Co-Investigator – Judith Goldstein; effort is a 1.5% flat budgetary amount

Educational Intramural Funding – Current  
7/1/2008 Annual Fellowship Training Program in Low Vision Rehabilitation  
Approved by JHSOM Executive Committee of Graduate Medical Education  
Sponsor: Lions Multiple District 22  
\$100,000

Educational Intramural Funding – Pending None

Educational Intramural Funding – Previous None

Clinical Intramural Funding – Current  
2017-present Grant to provide non-covered low vision occupational therapy rehabilitation services to patients  
in their home or work environment; for patients with medical assistance or vocational  
rehabilitation support in the workplace  
Kenneth S. Batty Charitable Trust Grant  
\$50,000  
Role: PI

Clinical Intramural Funding – Pending None

Clinical Intramural Funding – Previous  
2015-2017 Grant to provide non-covered low vision occupational therapy rehabilitation services to patients  
in their home or work environment; for patients with medical assistance or vocational  
rehabilitation support in the workplace  
Kenneth S. Batty Charitable Trust Grant  
\$35,000  
Role: PI

2010 Grant to obtain MP-1 microperimeter equipment to assess central visual field function  
Women’s Board at Johns Hopkins School of Medicine Grant  
\$50,000  
Role: PI

2012 Grant to obtain clinical equipment for delivery of pediatric low vision services  
Karl Kahane Foundation  
\$25,000  
Role: PI

System Innovation or Quality Improvement Intramural Funding  
None

Other Intramural Funding  
None

## **CLINICAL ACTIVITIES**

### Clinical Focus

My expertise has been managing the issues of comorbidities in a geriatric population with vision loss and increasing our Centers national exposure through incorporation of research into the clinical setting and increasing patient reach and volume. Under my leadership, we have increased patient volume nearly 6-fold at East Baltimore, and moved from a

longstanding budget deficit in 2007 to revenue positive in 2013. We expanded from 1 location, to 4 additional satellite practices, and from 1 to 3 faculty members making us one of the highest volume LV clinics in the U.S.

#### Certification

Medical, other state/government licensure

1993-present Maryland Board of Optometry, MD TA #1235 (certified in therapeutics)

Boards, other specialty certification

Not applicable

#### Clinical (Service) Responsibilities

11/06-present Clinical Director, Division of Low Vision Rehabilitation, Ophthalmology, 60%  
Responsibilities include clinical care, program building, fellowship program director, resident clinical education in vision rehabilitation and administrative oversight.

#### Clinical Productivity

2007-present As Director of the service, productivity at East Baltimore clinic site increased from 981 patients in 2007 to 3773 patients in 2016. Additionally, during this time period, we expanded access to LVR services in the community from providing services in 1 location to 4.

#### Clinical Draw from outside local/regional area

2007-present 337/2803 (12%) New patients from surrounding states, NJ, PA, DC, VA, WVA  
115/2803 (4%) New patients from AL, AK, CA, CO, CT, DE, FL, GA, IL, IN, KS, LA, ME, MA, MS, MO, NE, NM, NY, NC, ND, NH, OK, SC, TN, WA, WI  
23/2803 New patients came from Saudi Arabia, Dubai, China, Greece, Egypt, Kuwait, France, Peru

#### Membership in or examiner for specialty board

1996-2007 Member; Quality Enhancement & Improvement Committee of Maryland Optometry, Baltimore, MD. Responsible for auditing and reviewing medical records with particular focus on use of topical medications.

#### Clinical Program Building / Leadership

2007 Expansion of clinical services outside JHU East Baltimore campus location to Greenspring Station Satellite.  
2010 Expanded faculty hiring with 1 PT clinician to reduce wait time for appointments at East Baltimore campus.  
2010 Development of the Wilmer Low Vision Occupational Therapy Program. Program provides care to outpatients and inpatients, as well as evaluations in the home and work environment as indicated. This is the first occurrence of an OT program/hire outside of PM&R at JHU/JHH.  
6/11 Directed efforts to transition from unregulated outpatient environment to regulated clinic to improve financial viability of service.  
7/11 Coordinated efforts with Johns Hopkins School of Medicine compliance office and Johns Hopkins Hospital to organize a policy change to provide coverage and reimbursement for rehabilitation therapy services provided by Certified Low Vision Therapists.  
5/12 Formed and led the Vision Rehabilitation Search Committee for recruitment of additional full-time faculty to the division.  
9/12 Directed expansion of vision rehabilitation clinical services to Wilmer satellite in Bel Air, MD  
8/13 Directed expansion of vision rehabilitation clinical services to Bayview Hospital to address large geriatric outpatient and inpatient population.  
1/14 Directed expansion of vision rehabilitation clinical services to Wilmer satellite in Frederick, MD  
2/16 Formed and led the Vision Rehabilitation Search Committee for recruitment of additional full-time faculty to the division.  
6/16 Hired additional full-time faculty member  
4/17 Hired additional full-time faculty member

Clinical Demonstration Activities to external audience, on or off campus  
 10/12 Invited to present clinical rounds for clinicians and teachers for the visually impaired, Pediatric Ophthalmology Update, Wilmer Eye Institute, Baltimore MD

Development of nationally/internationally recognized clinical standard of care None

## EDUCATIONAL ACTIVITIES

### Educational Focus

My objective has been to create awareness of LV services within a field that is otherwise strongly focused on medical and surgical intervention. I instituted semi-annual LV grand rounds for residents and faculty, and developed a formal LV curriculum and rotation during PGY-2. I have thus far mentored 18 residents. Given the paucity of well-trained LV clinicians, I initiated the first clinical LV fellowship program in the U.S., and have mentored 5 fellows. Additionally, with the support of the clinical and research faculty, we initiated the **Lions Emerging Leadership Program**.

### Teaching

#### Classroom instruction

##### *JHMI/Regional*

9/93 Lecturer, "Diagnosis and Management of Herpes Simplex Keratitis", Resident's Conference, Baltimore Veterans Administration Medical Center, Baltimore, MD

5/94 Lecturer, "Glaucoma Management with Carbonic Anhydrase Inhibitors", Resident's Conference, Baltimore Veterans Administration Medical Center, Baltimore, MD

5/10 Lecturer, JHU medical students as part of the Genes to Society Curriculum, "Functional Implications of Macular Degeneration", AMD Session, Johns Hopkins School of Medicine, Baltimore MD

3/11 Lecturer, In-service training for occupational therapists, "Visual Implications of Stroke", Bayview Hospital Burton Pavilion, Johns Hopkins School of Medicine, Baltimore MD

5/11 Lecturer, JHU medical students as part of the Genes to Society Curriculum, "Functional Implications of Macular Degeneration", AMD Session, Johns Hopkins School of Medicine, Baltimore MD

5/13 Lecturer, JHU medical students as part of the Genes to Society Curriculum, "The Visually Impaired Patient", Johns Hopkins School of Medicine, Baltimore MD

*National* None

*International* None

#### Clinical instruction

##### *JHMI/Regional*

7/12-present Attending, PGY-2 residents; Outpatient low vision service. 5 weeks (1/2 day per week) for 5-7 residents annually, Johns Hopkins School of Medicine, Baltimore MD

7/13-present Attending, Johns Hopkins Geriatric Medicine Fellows rotate through clinic for 1-2 days during their fellowship year (5 total per year)

1/15-present Attending, Johns Hopkins Undergraduate "Visionaries" (n=30) each rotate through the clinic to observe LVR as they begin their volunteer efforts to work with Lions Club Members performing patient interviews, direct service and vision screenings.

##### *National*

3/16 Attending, Optometrist and technicians from Delaware Eye Center, Rehoboth, MD observing LVR clinic for 1 day

##### *International*

9/14 Attending, Chief Medical Officer of McCure, Nigeria observing LVR clinic for 2 days

9/15 Attending, Ophthalmologist, Hospital Italiano de Buenos Aires, Argentina observing LVR clinic for 1 day

4/16 Attending, Team (physicians, therapist, social worker) from Singapore Eye Research Institute observed outpatient low vision service patients with intent on expanding operations of a new LVR clinic in Singapore.

- 6/16 Attending, Medical Director-Senior Consultant-Surgical Retina, Sankara Eye Hospital, Pammal, Chennai, observing LVR clinic for 1 day
- 11/16 Fellow, Young Southeast Asia Leaders Initiative Program of the US State Department, Kuala Lumpur, Malaysia, observing LVR clinic for 1 day



CME instruction

*JHMI/Regional*

- 5/94 Lecturer, resident lecture series, “Glaucoma Filtering Surgery: Post/Op Management”, Grand Rounds Conference, Pennsylvania College of Optometry, Philadelphia, PA
- 3/96 Lecturer, community, optometrists, “Nonexudative Macular Degeneration and Risk Factors for Progression”, Greater Baltimore Optometric Society, Baltimore, MD
- 3/07 Lecturer, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> year residents and retina fellows, “Low Vision in AMD”, AMD Preceptor-ship for Novartis, Wilmer Eye Institute, Baltimore MD
- 3/08 Lecturer, “Managing Low Vision Patients in Clinic”, Wilmer 13<sup>th</sup> Annual Technician Course, Wilmer Eye Institute, Baltimore MD
- 3/09 Lecturer, “The Realities of Delivering Low Vision Rehabilitation Care”, Joint Wilmer Eye Institute and Maryland Optometric Association Conference, Baltimore MD
- 6/09 Lecturer, “Update on Low Vision for AMD”, Age-Related Macular Degeneration 2009: The Paradigm Continues to Evolve, Wilmer Eye Institute, Baltimore MD
- 3/10 Lecturer, “Measuring Vision and Prescribing for Patients with Retinal Disease”, Evidence –Based Care in Myopia Control, Retina and Vision Enhancement, Joint Wilmer Eye Institute and Maryland Optometric Association Conference, Baltimore MD
- 10/12 Lecturer, for teachers for the visually impaired, “Driving – Does Your Student Qualify”, Pediatric Ophthalmology Update, Wilmer Eye Institute, Baltimore MD
- 12/12 Lecturer, “Managing Patients with Vision Impairment in the Anti-VEGF Era”, 25<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, Baltimore MD
- 12/13 Lecturer, “Cataract in Advanced Dry AMD: Should you Consider A Telescope Implant”, 26<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, Baltimore MD
- 12/14 Lecturer, “Driving with Retinal Disease”, 27<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, Baltimore MD
- 12/15 Lecturer, “Vision Rehabilitation – Latest Research and Technology”, 28<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, Baltimore MD
- 2/18 Organizer Didactics – Wilmer Residency Education (3-hour). Organized grand rounds, workshop on MNRead and Jeopardy, Baltimore, MD
- 10/18 Lecturer, “Disability: Between a Rock and a Hard Place. Low Vision Grand Rounds, Wilmer Eye Institute, Baltimore MD

*National*

- 12/96 Lecturer, “A Targeted Approach to Macular Degeneration”, American Academy of Optometry Ellerbrock Memorial, Orlando, FL
- 2/98 Lecturer, “Diabetic Retinopathy and Macular Degeneration”, Southern Educational Congress of Optometry, Atlanta, GA
- 6/98 Lecturer, “Diabetic Retinopathy: Implementing Protocols into Your Practice”, AOA 101<sup>st</sup> Congress, Orlando, FL
- 6/98 Lecturer, “Nutrition in Retinal Disease Management”, AOA 101<sup>st</sup> Congress, Orlando, FL
- 9/09 Lecturer, “Health State Questionnaires – What Do They Say About Low Vision Populations”, Envision Conference, San Antonio TX
- 9/09 Lecturer, “Stroke and Vision Rehabilitation”, Envision Conference, San Antonio TX
- 11/09 Lecturer, “Driving and Vision Impairment: Limits and Realities”, American Academy of Optometry, Orlando FL
- 9/10 Lecturer, “Macular Degeneration: Inject or Rehabilitate? What To Do When”, Envision Conference, San Antonio, TX
- 11/10 Lecturer, “Should Ms. Daisy Be Driving? Your Role in Evaluation and Management”, American Academy of Optometry, San Francisco CA
- 9/11 Lecturer, “Managing Vision and Patients in the Anti-VEGF Era”, Envision Conference, St. Louis MO
- 10/11 Lecturer, “Managing Vision and Patients with AMD in the Anti-VEGF Era”, American Academy of Optometry, Boston MA
- 9/12 Lecturer and Panel Participant, “Clinical and Research Case Studies: Illuminating Complex Factors When Working with Older Adults with Low Vision”, Envision Conference, St. Louis MO

- 10/13 Lecturer, “Considerations in Geriatric Patients Seeking Outpatient Low Vision Services”, American Academy of Optometry, Seattle WA
- 10/13 Session Organizer and Lecturer, “Maximizing Visual Function: A Grand Rounds Discussion on Young and Working Age Adults”, American Academy of Optometry, Seattle WA
- 11/14 Moderator and Lecturer, “Visual Disability: Cases from the Gray Areas. Looking at Getting by but at What Cost”, American Academy of Optometry, Denver, CO
- 11/14 Lecturer, “Should Junior Be Driving”, American Academy of Optometry, Denver, CO
- 10/15 Moderator and Lecturer, “When Demands Exceed Reserve: Why Doctors Make Challenging Low Vision Patients”, American Academy of Optometry, New Orleans, LA
- 10/ 15 Lecturer, “Making Clinically Meaning Differences in Patients Receiving Anti-VEGF Therapy”, American Academy of Optometry, New Orleans, LA
- 11/16 Moderator and Lecturer, “Rapid Fire: Pediatric Low Vision Grand Rounds: From Pre-K to Graduation Day”, American Academy of Optometry, Anaheim, CA
- 3/19 Lecturer, “Treatment of Chronic Vision Impairment: An Evidence-Based Approach”, American Federation for the Blind, Crystal City, VA

*International*

- 5/96 Lecturer, “Recognition and Classification of the Clinical Signs of Diabetic Retinopathy”, American Academy of Optometry, Academy Europe, Denmark
- 4/14 Lecturer, “Contributions of Physical, Cognitive and Mental State to the Accuracy and Precision of Visual Ability Measurements made with the Activity Inventory”, Vision 2014, Melbourne Australia

Workshops /seminars

*JHMI/Regional*

- 3/95 Course Director and Lecturer, Mid-Atlantic community ophthalmologists and optometrists, “Target Diabetic Retinopathy. A Workshop in Hands-On Photographic Analysis”, Sheraton Towson, Baltimore, MD
- 4/95 Course Director and Lecturer, Mid-Atlantic community ophthalmologists and optometrists, “Target Diabetic Retinopathy”, A Workshop in Hands-On Photographic Analysis”, Sheraton Towson, Baltimore, MD
- 9/95 Lecturer, Mid-Atlantic community ophthalmologists and optometrists, “Nonproliferative Lesions in Diabetic Retinopathy, Retina Institute of Maryland Stouffer Course, Baltimore, MD
- 1/96 Course Director and Lecturer, Mid-Atlantic community ophthalmologists and optometrists, “Target: Age-Related Macular Degeneration”, A Workshop in Hands-On Photographic Analysis”, Retina Institute of Maryland, Baltimore, MD
- 6/07 Lecturer, “The Effectiveness of Low Vision Rehabilitation Trends in Research and Policy”, Friday Afternoon Research Meeting, Wilmer Eye Institute, Baltimore MD
- 3/08 Lecturer, low vision community, “Low Vision Services”, Town Hall Meeting, Sibley Memorial Hospital, Washington DC
- 6/10 Lecturer, “Baseline Traits of Low Vision Patients Accessing Outpatient Services in the Low Vision Research Network” (LOVRNET)”, Friday Afternoon Research Meeting, Wilmer Eye Institute, Baltimore MD
- 10/14 Lecturer, low vision community, “Keeping Your Keys: To Drive or Not to Drive”, Prevention of Blindness Society of Metropolitan Washington, Silver Spring MD
- 1/17 Presenter, “Timing of Vision Rehabilitation in Anti-VEGF Therapy”, Dana Center Meeting, Wilmer Eye Institute, Baltimore MD

*National*

- 2/97 Lecturer and workshop leader, “Photographic Grading of Diabetic Retinopathy Workshop”, Southern Educational Congress of Optometry, Atlanta, GA
- 2/97 Lecturer and workshop leader, “Photographic Grading of Macular Degeneration Workshop”, Southern Educational Congress of Optometry, Atlanta, GA
- 2/98 Lecturer and workshop leader, “Photographic Grading of Diabetic Retinopathy Workshop”, Southern Educational Congress of Optometry, Atlanta, GA
- 2/98 Lecturer and workshop leader, “Photographic Grading of Macular Degeneration Workshop”, Southern Educational Congress of Optometry, Atlanta, GA

- 9/08 Symposium Organizer, “The Clinical Low Vision Research Network”, Envision Conference, San Antonio TX
- 9/08 Lecturer, “Pilot Data Collection Project to Evaluate the Effectiveness of Visual Rehabilitation Services”, Envision Conference, San Antonio TX

*International*

- 7/08 Lecturer, “Effects of Central Scotomas on Self-Reported Reading and Mobility Function”, 9<sup>th</sup> International Conference on Low Vision, Montreal Canada
- 6/17 Lecturer, “Study of the Uptake of Low Vision Rehabilitation Services: Examining the Characteristics of Service Utilization”, 12<sup>th</sup> International Conference on Low Vision, The Hague the Netherlands

**Mentoring**

Pre-doctoral Advisees /Mentees                      None

Post-doctoral Advisees /Mentees

- 2009 - 2010      Alexis G. Malkin, O.D., [ASTP Low Vision Rehabilitation], currently Assistant Professor of Optometry and Attending Optometrist at the New England College of Optometry, Boston, MA. Awarded Louise L. Sloan Research Grant Award; co-authored articles OR 4, 7, 12.
- 2011 - 2012      Tiffany L. Chan, O.D., [ASTP Low Vision Rehabilitation], currently Assistant Professor of Ophthalmology and full-time faculty member at Johns Hopkins, Baltimore, MD. Awarded Louise L. Sloan Research Grant Award; co-authored articles OR 6, 8, 11.
- 2012 - 2014      Nicole Ross, O.D., [ASTP Low Vision Rehabilitation], currently Assistant Professor of Optometry and Attending Optometrist at the New England College of Optometry, Boston, MA.
- 2014 - 2015      Danielle Natale, O.D., [ASTP Low Vision Rehabilitation], currently Staff Optometrist – Krieger Eye Institute, Sinai Hospital, Baltimore, MD.
- 2015 - 2016      Ashley Deemer, O.D., [ASTP Low Vision Rehabilitation]. Awarded Louise L. Sloan Research Grant Award, Bill Mattingly Memorial Scholarship, and the Knights Templar Eye Foundation Grant – ARVO travel grant.
- 2017 - 2018      Rath Itthipanichpong, M.D., [Clinical Fellow Low Vision Rehabilitation]

Thesis committees                      None

Educational Program Building / Leadership

- 7/08 - present      Fellowship director, Lions Low Vision Fellowship Program (10% effort)
- 7/12 - present      Division education champion, Low Vision Clinical Training (5% effort)

Educational Demonstration Activities to external audiences

- 7/09 - 6/12      Ophthalmology PGY-2 through PGY-4 morning lectures during 2-week block annually and organized annual grand rounds. Prior to 2009, Wilmer residents did not receive classroom education in low vision rehabilitation and blindness.
- 7/12 - present      Initiated 5-week Wilmer ophthalmology PGY-2 resident rotation through the Low Vision Rehabilitation Clinical Service at the Wilmer Eye Institute. This is the first time ophthalmology residents have received hands-on training evaluating and managing low vision patients. Grand rounds frequency increased from annually to semi-annual.
- 2012 - present      Initiated 1-day observation rotation of each Geriatric Medicine Fellow at Bayview Medical Center through the Low Vision Clinic to provide exposure of services for visually impaired geriatric patients.

**RESEARCH ACTIVITIES**

**Research Focus**

My area of research has focused on improving the accuracy and precision in measuring visual ability function in patients with low vision. Visual ability is a latent variable and ergo, difficult to measure; making comparative clinical research of various interventions problematic. My research has involved developing a network of physicians to build consensus around a measure and, leading the network in a study of changes in visual ability in a large sample of patients across the

U.S. Additionally my work has recently focused on implementation science, specifically developing and measuring strategies to identify patients with low vision and connecting them to services.

### **Research Program Building / Leadership**

- 2007 - 2010 Co-founder and organizer of a national collaborative low vision research network (LOVRNET). LOVRNET consists of 28 low vision centers across the U.S. comprising 39 physicians.
- 2007 - 2010 Served as Principal Investigator of the first LOVRNET research study – The Low Vision Rehabilitation Outcomes Study, a prospective, observational study of usual low vision rehabilitation care.

**Research Demonstration Activities** None

**Inventions, Patents, Copyrights** None

**Technology Transfer Activities** None

### **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

- 11/7/2017 – 2018 Serving as Principal Investigator of the EVOLVE Project (Electronic advisory for Low Vision Referral). One-year pilot study examining the feasibility of an electronic advisory in the electronic health record to identify low vision patients and provide options for physicians regarding referral to low vision rehabilitation services.

### **ORGANIZATIONAL ACTIVITIES**

#### **Institutional Administrative Appointments**

- 12/96 - present Director of the Low Vision Rehabilitation Clinical Division at the Wilmer Eye Institute, Baltimore MD
- 2007 - present Finance Committee Member, Wilmer Eye Institute, Baltimore MD
- 2007 - present Long Range Planning Committee Member, Wilmer Eye Institute, Baltimore MD
- 2007 - present Clinical Practice & Billing Compliance Advisory Committee Member, Wilmer Eye Institute, Baltimore MD
- 2008 - 2009 Retinal Degeneration Search Committee Member, Wilmer Eye Institute, Baltimore MD
- 2012 - 2013 Glaucoma Search Committee Member, Wilmer Eye Institute, Baltimore MD
- 2012- present Division Education Champion, Residency Education Committee, Wilmer Eye Institute, Baltimore MD, in addition to clinical component of educating residents, participation in committee meetings and continuing education is required
- 2013 - 2014 Retinal Degeneration Search Committee Member, Wilmer Eye Institute, Baltimore MD
- 2016 – 2017 Glaucoma Search Committee Member, Wilmer Eye Institute, Baltimore MD

#### **Editorial Activities**

**Editorial Board Appointments** None

#### **Journal peer review activities**

- 2010 - present Canadian Journal of Ophthalmology
- 2011 - present Journal of the American Geriatrics Society
- 2012 - present British Journal of Ophthalmology
- 2013 - present Journal of the American Medical Association – Ophthalmology
- 2014 - present Clinical Epidemiology
- 2016 - present Ophthalmic Epidemiology

**Other peer review activities** None

#### **Advisory Committees, Review Groups/Study Sections**

- 2009 - present Advisory Board Member to the Center of Excellence in Low Vision and Vision Rehabilitation at

Wenzhou Medical College, China  
2015 - 2017 Low Vision Research Group – Chair. Responsible for organizing support, committee and selection for the Atwell–Envision Award presented annually at The Association for Research in Vision and Ophthalmology (ARVO)

#### Professional Societies

1993 - present American Academy of Optometry Member  
1993 - present American Optometric Association Member and Low Vision Section  
1993 - present Maryland Optometric Association Member  
2007 - present Association for Research in Vision and Ophthalmology

Conference Organizer None

#### Session Chair

##### *JHMI/Regional*

12/13 Session Chair and Lecturer, 26<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, “Low Vision Rehabilitation, Looking Beyond the Magnifier”, Baltimore MD  
12/14 Session Chair and Lecturer, 27<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, “Visual Disability: Cases from the Gray Areas”, Baltimore MD  
12/15 Session Chair and Lecturer, 28<sup>th</sup> Annual Current Concepts in Ophthalmology, Wilmer Eye Institute, “When Demands Exceed Reserve: Why Doctors Make Challenging Low Vision Patients”, Baltimore MD

##### *National*

9/09 Session Chair and Lecturer, Envision Conference, “Increasing the Evidence in Low Vision Rehabilitation – The Time Is Now” San Antonio TX.

*International* None

Consultantships None

## **RECOGNITION**

#### Awards, Honors

1993 Fisions Award for Clinical Excellence  
1993 Vision Service Plan Primary Care Award for Primary Care  
1993 Schnurmacher Research Grant  
1996 Maryland Young Optometrist of the Year  
2010 Envision Research Excellence through Collaboration Award  
2015 Press Ganey Survey Patient Satisfaction top score in “Provider Communication” at Johns Hopkins School of Medicine  
2017 The Humanitarian of the Year Award. Awarded by Lions Multiple District 22C  
2018 Overall Excellence in Service to the Blind and Visually Impaired by the DC/Maryland Association for Education and Rehabilitation of the Blind and Visually Impaired (AER)

#### Invited Talks

##### *JHMI/Regional*

7/06 Speaker, Wilmer Grand Grounds, “Driving and Low Vision – The Limits and the Realities”, Baltimore MD

- 5/08 Speaker, Wilmer – Age-Related Macular Degeneration in 2008: New Answers, New Questions, “Low Vision and AMD: Do Doctors Forget? Do Patients Benefit?”, Baltimore MD
- 2/15 Speaker, 42<sup>nd</sup> Annual Edmund G. Beacham Current Topics in Geriatric Medicine, “Vision Impairment and Visual Ability Function”, Baltimore MD

*National*

- 9/96 Speaker, Managed Vision and Eyecare Congress “How to Develop a Cost-Effective Chronic and Acute Eye Disease Management Program”, Philadelphia, PA
- 9/10 Speaker and Moderator, Envision Conference, “Low Vision Research Network-Patient Traits”, San Antonio TX
- 9/11 Speaker and Symposium Moderator and Lecturer, Envision Conference, “Health States of Patients Seeking Outpatient Low Vision Rehabilitation Services within LOVRNET”, St. Louis MO
- 10/12 Speaker, Monroe J. Hirsch Research Symposium, American Academy of Optometry, “Not Your Grandmother’s Macular Degeneration: Current Issues in AMD”, Phoenix AZ
- 10/15 Speaker, 13th Congress of International Ocular Inflammatory Society Meeting, “Vision Rehabilitation – Update on the Latest Research and Technology”, San Francisco, CA
- 5/16 Speaker, American Geriatrics Society Annual Meeting, “Making Sense Out of Care Options for Sensory Impairment, Long Beach, CA
- 4/17 Speaker, North American Neuro-Ophthalmology Society Annual Meeting, “Afferent and Efferent Rehabilitative Strategies in Neuro-Ophthalmology”, Washington, DC
- 1/18 Speaker, University of Colorado School of Medicine Department of Ophthalmology Grand Rounds, “Low Vision Rehab in the Anti-VEGF Era”, Aurora, CO

University of Colorado SOM | Dept of Ophthalmology  
1675 Aurora Court, F731 | Aurora, CO 80045

**Low Vision Rehab in the Anti-VEGF Era**

1/18

*International*

- 4/07 Speaker, 7<sup>th</sup> International Congress of Ophthalmology and Optometry, China, “Low Vision Rehabilitation”, Shanghai China
- 4/14 Speaker, Vision 2014, “Interpreting Quality of Life Outcomes in Low Vision Rehabilitation Trials Symposium”, Melbourne Australia
- 4/18 Speaker, CL Section Mini-Symposium – The Association for Research in Vision and Ophthalmology, “Using an Electronic Health Record Advisory to Improve Utilization of Low Vision Rehabilitation Services”, Honolulu, HI.

**OTHER PROFESSIONAL ACCOMPLISHMENTS**

Posters

- 5/09 **Goldstein JE**, Frick, K, Massof RW, Low Vision Research Network Study Group. Health state questionnaires: what do they say about low vision populations. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- 5/12 **Goldstein JE**, Massof RW, Low Vision Research Network Study Group. Evaluate the effects of item filtering on measures of patient-reported low vision rehabilitation outcomes. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- 5/12 Massof RW, **Goldstein JE**, FH Baker. Comparison of monocular to effective binocular central scotomas in low vision patients. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- 5/15 **Goldstein JE**, Massof RW, Low Vision Research Network Study Group. Detecting a clinically meaningful difference in low vision rehabilitation. The Association for Research in Vision and Ophthalmology, Denver, CO.
- 5/16 **Goldstein JE**, Smith, TM, Massof RW. Comparing clinically meaningful low vision rehabilitation outcomes by patient-report, performance measures, and therapist ratings. The Association for Research in Vision and Ophthalmology, Seattle, WA.

- 4/18 Guo, X .....**Goldstein JE, Visual Characteristics and Referral Patterns of Low Vision Patients in an Academic Medical Center**  
4/19 Goldstein...HER advisory

Oral/Podium Presentations

- 5/11 **Goldstein JE.** Relationship between functional ability and depressed mood in low vision patients. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.  
5/17 **Goldstein JE.** Study of the uptake of low vision rehabilitation services: Examining the characteristics of service utilization. The Association for Research in Vision and Ophthalmology, Baltimore, MD.  
5/18 **Goldstein JE.** Calibration of the IVI Questionnaire. The Association for Research in Vision and Ophthalmology, Honolulu, HI.

Philanthropic Activities

- 1/09 Lecturer, “Vision Rehabilitation: Solutions for the Here and Now”, Lecturer for Development, Breakers, Palm Beach, FL  
4/20 **Live the Mission**