

STATE BOARD OF OPTOMETRY

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course Approval Checklist

Title:					
Provider Name:					
☑ Completed ApplicationOpen to all Optometrists?☑ Yes☑ NoMaintain Record Agreement?☑ Yes☑ No					
☑ Correct Application Fee					
☑ Detailed Course Summary					
☑ Detailed Course Outline					
☑ PowerPoint and/or other Presentation Materials					
□Advertising (optional)					
☑CV for EACH Course Instructor					
☑ License Verification for Each Course Instructor Disciplinary History? □ Yes ☑ No					



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory Fee

Please type or print clearly.

Pursuant to California Code of Regulations (CCR) § <u>1536</u>, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule, a detailed course outline and presentation materials (e.g., PowerPoint presentation). Applications must be submitted 45 days prior to the course presentation date.

Course Title		Course Presentation Date		
Amblyopia: From front of the eye to back of the brain		0 2 /0 5 /2 0 1 7		
D	Course Provider (Contact Information		
Provider Name				
LEILA	HAJKAZEMSHIRAZI			
(First)	(Last) (Mic		dle)	
Provider Mailing Address				
1825 4th St. 5th floor,				
Street Reception 5C	_ City San Francisc	$\frac{CA}{CA}$ State $\frac{CA}{CA}$	_ Zip <u>94158</u>	-
Provider Email Address Leila.S	Shirazi@ucsf.edu			
				
Will the proposed course be open to all California licensed optometrists?			☑ YES □ NO	
Do you agree to maintain and for				
of course content and attendant from the date of course present		s, for a period of at lea	st three years	☑ YES □ NO
,				
Diagon avaida tha information ha		ctor Information		
Please provide the information be If there are more instructors in the				
Instructor Name	y ocured, produce provide an	o requested intermediate	. on a coparate c	постограрогі
Leila	Hajkazemshirazi			
(First)	(L	_ast)	(Middle)
License Number 15058 TLG License Type Optometrist				
License Number 10000 120		License Type		
Phone Number (650) 888-0131		Email Address Leila	a.Shirazi@ucs	f.edu
I declare under penalty of perju				tion submitted on
this form and on any accompar	nying attachments submi	itted is true and corre	ct.	
Harry Oly		01/05/2	2017	
Signature of Course Provider		1 Date		
				Form CE-01, Rev. 5/16

Title: Amblyopia: From front of the eye to back of the brain

Presenter: Leila Hajkazemshirazi, OD

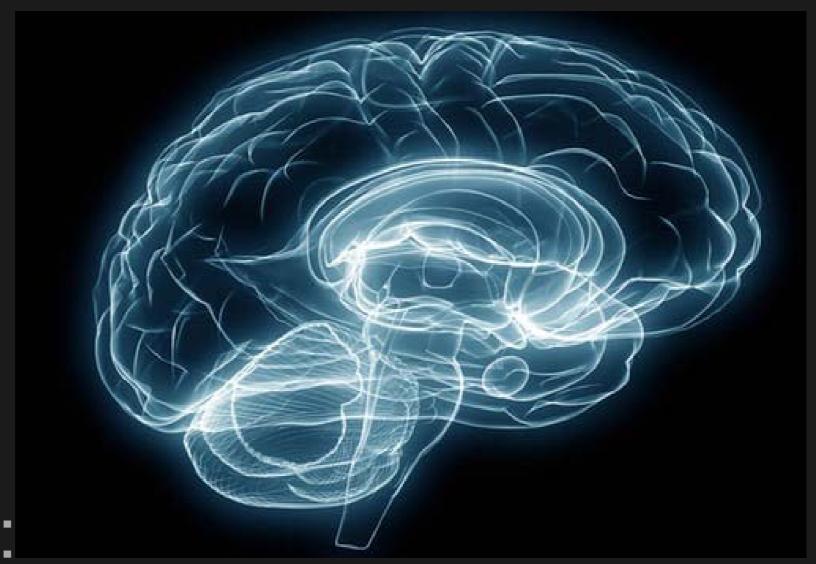
Summary:

This course will provide a comprehensive analysis of amblyopia diagnosis and management. The presentation will review various types of amblyopia, as well as prevalence and prognosis after collaborative optometric and ophthalmologic care according to the traditional treatment modalities. It will also discuss new treatment recommendations based on research conducted by the Pediatric Eye Disease Investigator Group (PEDIG) and other similar organizations. Furthermore, new research pertaining to the treatment of adult amblyopia will be discussed.

Amblyopia: From front of the eye to back of the brain Leila Hajkazemshirazi, OD UCSF Medical Center Benioff Children's Hospital

Course Outline:

- Visual Acuity Development
- Types of Amblyopia & Prevalence
 - Deprivation
 - Congenital/traumatic cataracts
 - Corneal opacities
 - Congenital ptosis
 - Refractive
 - Isoammetropic
 - Anisometropic
 - Strabismic/Nystagmus
 - Organic
 - · Congenital anomalies & diseases
 - Toxic
 - Nutritional
- Diagnostic Tests
- Amblyopia treatment, Follow up care, Prognosis (individually discussed for each type, including case reports)
 - Surgical
 - Optical (glasses, contact lenses)
 - Occlusion therapy
 - Office based amblyopia therapy
- Development of Amblyopia Management through PEDIG
 - · Review of ATS studies
 - New research for dichoptic treatment
- New research for treatment of amblyopia in adults
 - Brain plasticity
 - Occlusion therapy
 - Dichoptic therapy
 - Physical exercise



AMBLYOPIA:

FROM FRONT OF THE EYE TO BACK OF THE BRAIN Leila H. Shirazi

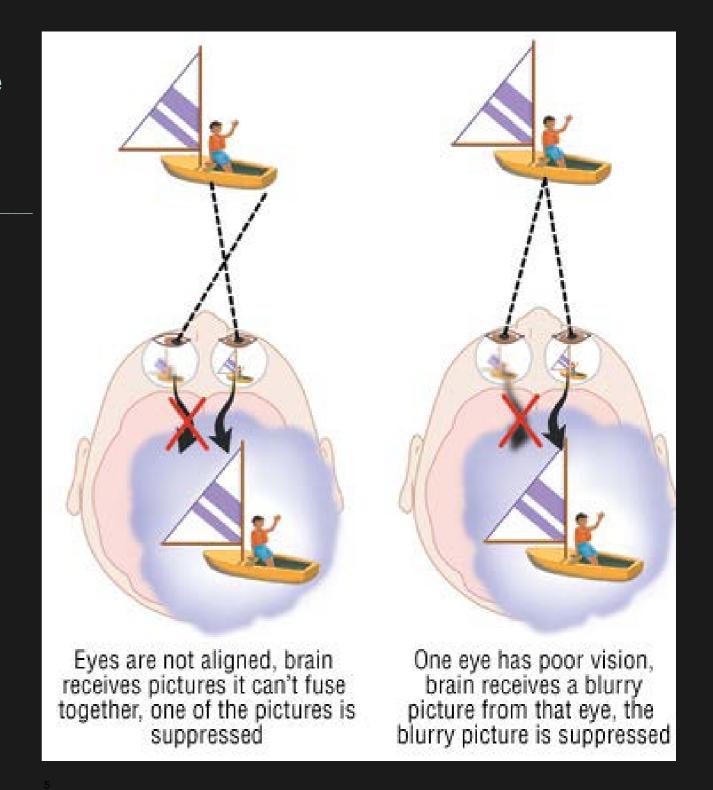
Leila H. Shirazi, OD UCSF Benioff Children's Hospital Feb. 2017

VISUAL ACUITY

"Visual acuity is the capacity to discriminate detail or distinguish form"

- Max Schapero, OD

- Physical Factors
 - Stimulus variables
 - Optics of the eye
- Physiological Factors
 - The retina
 - Ocular movements
- Psychological Factors



DEVELOPMENT OF VISUAL ACUITY

Age	Acuity Level	
4 months	20/2500	
6 months	20/1000	
9 months	20/240	
1 year	20/166	
2 years	20/40	
3 years	20/30	
4 years	20/25	
5 years	20/20 or better	

Chavasse's Acuity Levels (1939)

Age	Acuity Level
1 year	20/140
2 years	20/48+
3 years	20/46-
4 years	20/40
5 years	20/33-
6 years	20/27-
7 years	20/26+
8 years	20/24
9 years	20/23+
10 years	20/22
11 years	20/20-
12 years	20/20

Slataper's Acuity Levels (1950) (Interpreted by Weymouth in 1963)

Age	Acuity Level
6 months	20/400
1 year	20/200
2 years	20/100
3 years	20/50

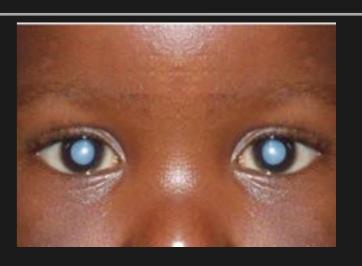
Schwarting's Acuity Levels (1954)

MOST COMMON CAUSE OF MONOCULAR VISUAL LOSS IN CHILDREN, AFFECTING 1.3% TO 3.6% OF CHILD REMYOPIA:

TYPES OF AMBLY

- Organic
 - Nutritional
 - Toxic
 - Congenital
- Functional
 - Hysterical
 - Light Deprivation
 - Isoammetropic/Anisometropic
 - Strabismic
 - Nystagmus





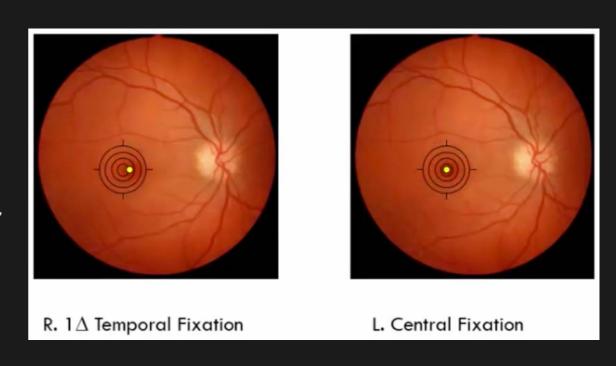






DIAGNOSTIC TESTS

- Case history
- Visual Acuity
- Cycloplegic Refraction
- Cover Test
- Stereo-acuity
- Fixation (eccentric vs. central, steady vs. unsteady)
 - Visuoscopy
 - Haidinger Brush
 - Maxwell Spot
 - Angle Kappa comparison
 - Major amblyoscope
 - Brock-Givner After Image Transfer



TREATMENT OF AMBLYOPIA

Brain Plasticity: "capability of cerebral neurons to change in response to experience"

Binocular Rivalry: "the alternations in perception that occur when different images are presented to the two eyes"

- Elimination of amblyogenic factors
- Occlusion Therapy
 - Patching
 - Atropine
 - Bangetter Filters
- Antisuppression and amblyopia therapy
- Binocular (bi-ocular) Treatments (iPad games, etc)

HERE WE GO...

Amblyopia: How, Who, When to treat!

DEPRIVATION AMBLYOPIA

- 1. Congenital cataracts & Lens Dislocation
- 2. Corneal Opacities
 - Anterior Segment Dysgenesis (Peters Anomaly, etc.)
 - Congenital Glaucoma
 - Limbal Stem Cell Deficiency
 - Trauma
- 3. Ptosis
 - Congenital vs. Neurological

1. CONGENITAL CATARACTS: PREVALENCE

- Race
- Sex
- Unilateral vs. Bilateral

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1. CONGENITAL CATARACTS: TREATMENT

- Cataract extraction
- Intraocular Lens Implants
- Aphakic glasses
- Aphakic contact lenses
- Occlusion Therapy



CONTACT LENSES USED FOR APHAKIA:

Silsoft

▶ Dk: 340

Base Curves: 7.5, 7.7, 7.9, 8.1

Diameters: 11.3, 12.5

Power:

► +12.00 to +20.00 (1D steps)

► +23.00 to +32.00 (3D steps)

Cost: ~\$300 per lens

Annual replacement

Approved for up to 30 days E

RGP



Biofinity XR

▶ DK: 128

► BC/Diam: 8.6/14.0

Power: +8.50 to +15.00, -12.50 to -20.00

Proclear XR

DK:

► BC/Diam:

► Power: Up to +20.00

Flexlens

Dk: 17.0 (60 for definitive material)

► BC: 6.0 to 10.8 (in 0.1 mm steps)

Power: No limitations

► Cost: ~\$150 per lens

Quarterly Replacement



1. CONGENITAL CATARACTS: PROGNOSIS & COMPLICATIONS

- Unilateral vs. Bilateral Aphakia
- ► IOL vs. Aphakic Contact Lens
- Risks:
 - Glaucoma
 - Retinal Detachment

CASE #1

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2. CORNEAL OPACITIES: PREVALENCE

- Race
- Sex
- Unilateral vs. Bilateral

2. CORNEAL OPACITIES: TREATMENT

- Corneal Transplant
- Optical Correction:
 - RGP Lenses
 - Scleral Lenses
- Occlusion Therapy

2. CORNEAL OPACITIES: PROGNOSIS & COMPLICATIONS

- Graft failure
- Contact lens failure

CASE #2

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3. PTOSIS: PREV

- Race
- Sex
- Unilateral vs. Bilateral
- Extent of ptosis and Head Posture
- Congenital vs. Neurological







3. PTOSIS: TREATMENT

- Ptosis surgery
- Observation
- Preventative Occlusion Therapy

3. PTOSIS: PROGNOSIS & COMPLICATIONS

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CASE #3

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REFRACTIVE AMBLYON

1. Isoammetropic

- A. Myopic: > -6.00 D OU
- B. Hyperopic: > + .00 D OU
- C. Meridional: > 2.00 D OU

2. Anisometropic

- A. Myopic
- B. Hyperopic
- C. Meridional







REFRACTIVE AMBLYOPIA: TREATMENT

- 1. Refractive Error Correction
 - A. Myopic
 - B. Hyperopic
 - C. Meridional
- 2. Occlusion Therapy

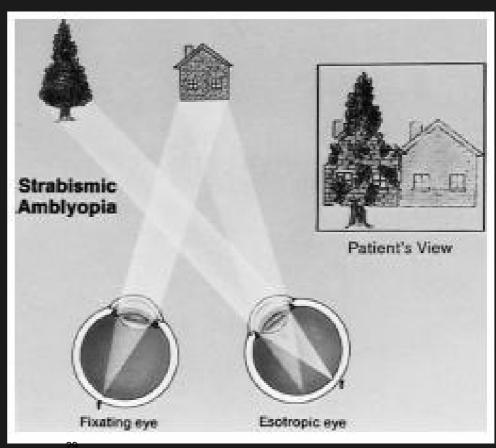
CASE #4

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STRABISMIC AMBLYOPIA

- Esotropia, Exotropia, Hypertropia
- Constant Vs. Intermittent
- Fixation Preference





STRABISMIC AMBLYOPIA: TREATMENT

- Refractive Error Correction
 - Accommodative Esotropia
 - Intermittent Exotropia
 - Clarity for Fusion
- Fusional Therapy
 - Office-based Eye Exercises
 - . HTS
- Surgical Correction





CASE #5

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WHICH TYPE OF TREATMENT IS SUPERIOR?

Amblyopia Management:

OCCLUSION THERA

- Patching
 - Who benefits?
 - How long?
 - What type of activities while patching?
- Atropine (efficacy vs. side effects)
 - Daily vs. Part-time
- Bangerter Filters
- Vision Therapy
- Which of the above are more efficacious?

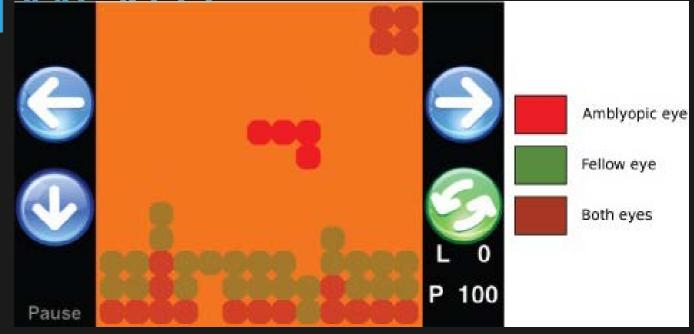


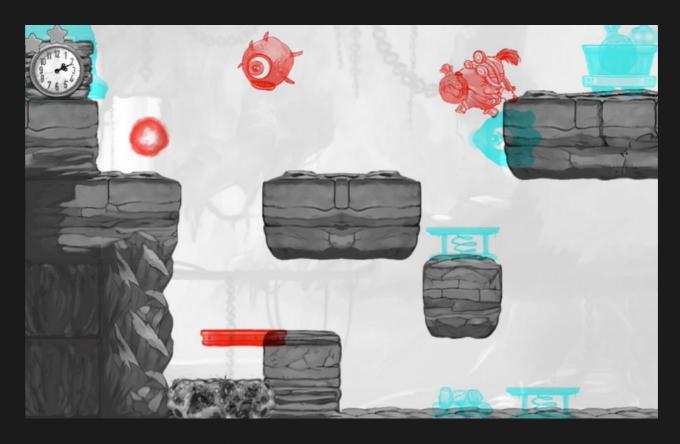




DICHOPTIC TREATMENTS

- PEDIG
 - ATS 18
 - ATS 20
- Hess Lab





PEDIATRIC EYE DISEASE INCLUMENTAL PEDIG INCLUMEN

- ATS02B A Randomized Trial Comparing Part-time Versus Minimal-time Patching for Moderate Amblyopia
- ATS02A: A Randomized Trial Comparing Part-time Versus Full-time Patching for Severe Amblyopia
- ATS02C An Observational Study on Recurrence of Amblyopia After Discontinuation of Treatment
- ATS03 An Evaluation of Treatment of Amblyopia in 7 to <18 Year Olds</p>
- ATS04 A Randomized Trial Comparing Daily Atropine Versus Weekend Atropine for Moderate Amblyopia
- ► ATS05 A Randomized Trial to Evaluate 2 Hours of Daily Patching for Amblyopia in Children 3 to <7 Years Old
- ATS06 A Randomized Trial of Near versus Distance Activities while Patching for Amblyopia in Children 3 to < 7 years old
- ATS07 Bilateral Refractive Amblyopia Treatment Study: Response to Treatment of Previously Untreated Presumed Bilateral Refractive Amblyopia
- ATS08 A Randomized Trial Comparing Atropine to Atropine plus a Plano Lens for the Sound Eye as Prescribed Treatments for Amblyopia in Children 3 to < 7 Years Old
- ► ATS09 A Randomized Trial Comparing Patching to Atropine for Amblyopia in Children 7 to < 13 Years Old
- ATS10 A Randomized Trial of Full-time Bangerter Filters versus Part-time Daily Patching for the Treatment of Moderate Amblyopia in Children

PEDIATRIC EYE DISEASE INVESTIGATOR GROUP (PEDIG) and for Residual Amblyopia

- ATS12 A Randomized Trial Comparing Patching with Active Vision Therapy to Patching with Control Vision Therapy as Treatment for Amblyopia in Children 7 to <13 Years Old
- ATS13 An Observational Study of Optical Correction for Strabismic Amblyopia in Children 3 to <7
 Years Old
- ATS14 A Pilot Study to Evaluate Levodopa as Treatment for Residual Amblyopia in 8 to 17 Year
 Olds
- ATS15 Increasing Patching for Amblyopia Study
- ATS16 Augmenting Atropine Treatment for Amblyopia Study
- ATS17 A Randomized Trial of Levodopa as Treatment for Residual Amblyopia
- ATS18 Study of Binocular Computer Activities for Treatment of Amblyopia
- ATS20 Binocular Dig Rush Game Treatment for Amblyopia

PEDIG: AMBLYOPIA TREATMENT RESULTS SUMMARY

- Atropine vs. Patching: Similar outcome (all age groups)
- Weekend Atropine vs. <u>Daily</u> Atropine: Similar outcome
- For moderate amblyopia (VA between 20/40 to 20/80): similar outcome for 2 hours vs. 6 hours of daily patching
- For <u>Severe</u> amblyopia (VA 20/100 t o20/400): similar outcome for <u>6 hours</u> vs. <u>full time</u> daily patching
- 1/4 recurrence rate after cessation of patching, and worse if 6 hours of patching stopped abruptly vs. taper

PEDIG: AMBLYOPIA TREATMENT RESULTS SUMMARY

- 7 to <13 year olds: 2-6 hours of daily patching with near work improved VA despite previous treatment</p>
- 13 to <18 year olds: 2-6 hours of daily patching with near work may improve VA when amblyopia has not been previously treated
- ► <u>Refractive correction</u> alone improves VA in many cases with resolution of amblyopia in at least 1/3 of 3 to <7 year olds with untreated anisometropic amblyopia
- Performing common near activities does not improve VA outcome when treating anisometropic/strabismic/combined amblyopia with daily patching
- Bangerter filters vs. patching: similar outcome

PEDIG: AMBLYOPIA TREATMENT RESULTS SUMMARY

- ▶ 16-week treatment trial of vision therapy was feasible with respect to maintaining protocol adherence; however, recruitment under the proposed eligibility criteria, necessitated by the standardized approach to vision therapy, was not successful. A randomized clinical trial of in-office vision therapy for the treatment of amblyopia would require broadening of the eligibility criteria and improved methods to gather objective data regarding the home therapy. A more flexible approach that customizes vision therapy based on subject age, visual acuity, and stereopsis might be required to allow enrollment of a broader group of subjects.
- Optical treatment alone of strabismic and combined-mechanism amblyopia results in clinically meaningful improvement in amblyopic eye visual acuity for most 3- to <7-year-old children, resolving in at least one quarter without the need for additional treatment.
- When amblyopic eye's VA stops improving with 2 hours of daily patching, increasing the daily patching dosage to 6 hours results in more improvement in VA after 10 weeks compared with continuing 2 hours daily.
- For children 7 to 12 years of age with residual amblyopia after patching therapy, oral levodopa while continuing to patch 2 hours daily does not produce a clinically or statistically meaningful improvement in VA compared with placebo and patching.

... AND SUMMARIZING THE SUMMARY:

- Start by prescribing optical correction
- Once VA-improvement plateaus, add monocular occlusion (patching, weekend atropine, Bangerter filter)
 - If VA <u>better</u> than 20/100: 2 hours daily
 - If VA worse than 20/100: 6 hours daily
 - If residual amblyopia persists with 2 hours of occlusion, increase occlusion therapy to 6 hours daily
 - For severe amblyopes, once amblyopia resolves, taper from 6 hours to 2 hours prior to discontinuing treatment
- Amblyopia still treatable beyond the magic age of 8
- For older children, prognosis is better if amblyopia is previously untreated

NEW RESEARCH: ADULT AMBLYOPIA TREATMENT

- Brain plasticity in adults (based on concept of binocular rivalry)
 - Occlusion
 - Dichoptic therapy
 - Physical exercise
 - Other

SUMMARY

- Early Diagnosis is key...
- But it's never too late!
- Treatment (risks/benefits of different modes of treatment)
- Dx of <u>EXCLUSION</u>
- Be ware of concurrent disease!

REFERENCES:

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QUESTIONS?

THANK YOU!

Leila Hajkazemshirazi, O.D.

2455 Oakmont Drive • San Bruno, CA 94066

Phone: (650) 888-0131 • E-Mail: leishirazi@gmail.com

Education

Residency Marshall B. Ketchum University (SCCO) June 2014 – June 2015

Pediatric Optometry and Vision Therapy

Doctor of Optometry UC Berkeley School of Optometry Aug. 2010 – May 2014

Training included Glaucoma certification

Bachelor of Science University of California, Berkeley Aug. 2006 – Dec. 2008

Majored in Chemical Biology, Minored in Near Eastern Studies, and conducted research in Medicinal Chemistry

Clinical Experience

UCSF Medical Center (San Francisco, CA)

April 2016 - present

Pediatric and adult comprehensive and acute eye exams

Adult and pediatric strabismus evaluations, including pre- and post-operative exams

Adult and Pediatric contact lens fitting and evaluation, including contact lens examinations for aphakia

Jules Stein Eye Institute, UCLA (Los Angeles, CA)

June 2015 - March 2016

Pediatric eye exams

Adult and pediatric strabismus evaluations, including pre- and post-operative exams

Adult and Pediatric contact lens fitting and evaluation, including contact lens examinations for aphakia

Marshall B. Ketchum University, Studt Center for Vision Therapy (Fullerton, CA)

June 2014 - June 2015

Comprehensive infant and pediatric exams, including the special needs group

Neuro-optometry evaluations on adults with acquired brain injury (ABI)

Pediatric contact lens fitting

Binocular vision evaluations and vision therapy

Clinical attending for the 3rd and 4th year optometry students in the pediatric and vision therapy clinics

Teaching assistant for the strabismus course at the school of optometry

Clinical and surgical observation with pediatric ophthalmology at UC Irvine

Blind Children's Learning Center (Tustin, CA)

June 2014 - June 2015

Comprehensive eye examinations for the infant and pediatric patients with severe vision impairment and special needs

UC Berkeley's Meredith Morgan Eye Center (Berkeley, CA)

May 2012 - May 2014

Clinical intern, performing comprehensive eye examinations, glaucoma follow-ups, contact lens fittings, binocular vision evaluations, vision therapy, perceptual skills assessments, low vision, pediatrics, geriatrics, and urgent care visits

Castle Family Clinic (Atwater, CA)

Mar. 2014 – May 2014

Clinical intern, providing comprehensive eye care to the low income population of Central California under faculty supervision

Grand round presentations on a weekly basis

Southeast Health Center (San Francisco, CA)

Jan. 2014 – Mar. 2014

Clinical intern, performing comprehensive eye exams as well as providing optical services to the low-income, homeless and imprisoned juvenile population of San Francisco

San Francisco VA Medical Center (San Francisco, CA)

Oct. 2013 - Dec. 2013

Clinical intern, performing comprehensive eye exams for the geriatric veterans, weekly seminars and journal clubs, as well as grand rounds on ocular disease, glaucoma diagnosis and management, ocular oncology, and pediatric eye disease at UCSF Ophthalmology.

Alameda County Medical Center (Oakland, CA)

Aug. 2013 - Oct. 2013

Clinical intern, performing comprehensive eye exams and medical eye services provided for all residents of the East Bay. General population included low-income residents of all ages and ethnicities.

Seymour Johnson Air Force Optometry Clinic (Goldsboro, NC)

May 2013 - Aug. 2013

Clinical intern, performing primary and acute eye care, co-management of refractive surgery, and contact lens fitting for the Air Force unit and their families

UC Berkeley's Tang Center (Berkeley, CA)

Jan. 2013 - May 2013

Clinical intern, performing comprehensive primary care eye exams, contact lens fittings, and urgent care visits

Over 60's Clinic (Oakland, CA)

Feb. 2013

Clinical intern, performing primary eye care for low-income and homeless citizens over the age of 60 with exposure to a wide variety of systemic and ocular diseases

Clinical & Lecture Presentations

- Lecturer at the Orange County Optometric Society (2015): "Primary Care Management of Strabismus"
- Management of Strabismus Lecture, SCCO (2015): "Esotropia Management: Vision Therapy or Surgery?"
- Castle Eye Center (2014): "Systemic Lupus Erythematosus: Ocular Involvement and Manifestations"
- Castle Eye Center (2014): "Multiple Sclerosis: Clinical Manifestations and Ocular Involvement"
- Castle Eye Center (2014): "Optic Disc Edema: Clinical Management and Differential Diagnosis"
- Castle Eye Center (2014): "Traumatic Angle Recession: Risk of Glaucoma and other Associated Findings"
- San Francisco VA Medical Center (2013): "Double Vision: Diagnosis/Workup"
- Alameda County Medical Center (2013): "Ocular Toxoplasmosis"
- Contact Lens Clinic, UC Berkeley Eye Center (2012): "Contact Lenses for Presbyopia: Soft and Gas-Permeable Multifocal Contact Lenses as well as Monovision Fitting for Presbyopic patients"
- Primary Care Clinic, UC Berkeley Eye Center (2012): "Hypertensive Retinopathy"

Work Experience

UCSF Medical Center (San Francisco, CA)

Optometrist

April 2016 - Present

- Comprehensive pediatric and adult eye examinations and strabismus evaluations
- Contact lens fitting and evaluation for pediatric and adult patients

Jules Stein Eye Institute at UCLA (Los Angeles, CA)

Optometrist

June 2015 - March 2016

- Comprehensive pediatric eye exams and strabismus evaluations for pediatric and adult patients
- Contact lens fitting and evaluation for pediatric and adult patients

Pediatric Eye Disease Investigator Group (PEDIG)

Investigator

Nov. 2014 - present

- Recruiting patients for various research trials
- Masked examiner for the study visits

Rising Star Optometry (San Rafael, CA)
Vision Academy Optometry (San Francisco, CA)

Vision Therapist

Oct. 2013 - June 2014

Academy Optometry (San Francisco, CA)
 Vision Therapist
 Aug. 2013 – Oct. 2013
 Treating binocular vision deficiencies via vision therapy under the supervision of licensed optometrists

Drs. Hall & Szeto Optometry (San Francisco, CA)

Optometric Technician

Aug. 2009 - Aug. 2011

- Optometric Pretesting
- Insurance authorizations and billing
- Mass-ordering of contact lenses from the vendors

Trauner Research Group

Research Assistant

Oct. 2006 - Dec. 2008

- Synthesizing analogs of a bacterial DNA primase inhibitor to discuss a novel class of antibiotics
- Preparing small molecule potential inhibitors of TFIID, which were being tested in collaboration with the Tijan research group (Microbiology Department, UC Berkeley)
- Synthesized T-shaped potassium channel blockers

Pasta Primavera (San Mateo, CA)

Waitress

Nov. 2004 - Jan. 2009

- Waiting on tables
- Training new employees
- Managing the restaurant in the absence of general manager
- Filing the restaurant's billing statements and invoices

College of San Mateo (San Mateo, CA)

Tutor

Aug. 2004 – May 2006

Tutoring students in math, physics, general and organic chemistry

Kia of Hayward (Hayward, CA)

File Clerk

June 2004 - Aug. 2004

• Filing invoices and bank statements

Volunteer Activities

Vision Screening at the Special Olympics Southern California (Fountain Valley, CA)

- Vision Screening at the Living Hope Health Fair (Stockton, CA)
- Vision Education Workshop at Washington Elementary (Berkeley, CA)
- Vision Screening at the Suitcase Clinic (Berkeley, CA)
- Student Representative at Optometry Legislative Day (Sacramento, CA)
- Vision Screening at Women and Youth Clinic (Berkeley, CA)
- Vision Screening at the Community Health Forum, Let's Get Healthy (San Jose, CA)
- Workshop Leader for "Expanding your Horizons in Science and Mathematics", a science conferences for young women (San Bruno, CA)

Dec. 2014 June 2012 March 2012

April 2011, Oct. 2011

March 2011 Oct. 2010 Oct. 2010 March 2006

Leadership Experience

UC Berkeley School of Optometry Class of 2014 President

• UCBSO Clinic Director Search Committee Student Representative

• Sports Vision Regional Liaison at the UC Berkeley School of Optometry

• Honor Policy Committee at the UCBSO, member

University of California Optometric Student Association, board Member

Associated Students of College of San Mateo, student senator

Accreditation Committee at College of San Mateo, member

• College of San Mateo Persian Club, co-founder

Aug. 2011 - May 2014

Feb. 2013

June 2012 - June 2013 Jan. 2013 - Mar. 2013

2011 – 2014

2005 - 2006 2005 - 2006

2005

Professional Affiliations and Memberships

• Pediatric Eye Disease Investigator Group (PEDIG)

American Academy of Optometry (AAO)

American Optometric Association (AOA)

• California Optometric Association (COA)

College of Optometrists in Vision Development (COVD)

• Neuro-Optometric Rehabilitation Association (NORA)

• American Optometric Student Association (AOSA)

Beta Sigma Kappa – International Optometric Honor Society

• Phi Theta Kappa – Undergraduate Honor Society

2014 – present

2010 – present

2010 – present

2010 - present

2010 - 2015

2014 - present

2010 – present

Lifetime

Lifetime

Awards

- Terrance N. Ingraham Pediatric Optometry Residency Support (2015)
- Professional Student Support Fund (PSSF) awarded for academic and clinical distinction, and for promoting cohesiveness among peers in class and in clinic (2013 and 2014)
- Dean's Departmental Award at the UC Berkeley School of Optometry (2010 2014)
- Great Western Council of Optometry Award for academic excellence and outstanding leadership (2012)
- UCOSA Board Member of the Month (Feb. 2012)
- The National Dean's List (2005-2006)

Certifications

- TLG (Therapeutic Pharmaceutical Agents with Lacrimal Dilation and Glaucoma) Certification
- Credentialed consultant for EyePACS teleretinopathy Program
- Adult/Child/Infant CPR & AED

Research Poster Presentations and Publications

- L.H. Shirazi, OD; L. Lowell, OD, FAAO, FCOVD. "Management of Dizziness Via Vision Therapy for Binocular Vision Dysfunction in a Patient with Acquired Brain Injury". American Academy of Optometry Poster Presentation. Nov. 2014.
- Lauterwasser, E.M.W.; Shirazi, L.H.; Trauner, D. "Rational Design of T-Shaped Potassium Channel Blockers."
 2008.
- Wilson, E.M.; **Shirazi, L.H.**; Rymer, R.; Berger, J.M.; Trauner, D. "Concise Synthesis of the Natural Product Bacterial DNA Primase Inhibitor (+)-Sch 642305 and Progress Toward a Co-Crystal Structure." **2007**.

Special Skills

- Proficient with Electronic Medical Records (Epic Hyperspace, Compulink and OfficeMate/ExamWriter)
- Experienced in vision and medical insurance coding and billing
- Experienced in blocking and edging ophthalmic lenses

Languages Spoken

- Farsi (fluent in speaking/reading/writing)
- Optometric Spanish, excluding patient consultation

Extracurricular Activities & Performances

- Represented the culture of West Asia at the Berkeley Breakfast Club's annual "Asian Occasion" event by performing a traditional Persian dance, as well as playing Santour, a traditional Persian instrument (Jan. 2013)
- Participated in dance & musical instrument performances at UC Berkeley's annual Iranian Students' Cultural Organization's Iranian New Year Events (2007-2008)
- Participated in a Dance Performance at UC Berkeley's "From all Perspectives: The ASUC's Student Group Showcase" multicultural show (April 2008)
- Organized multicultural events at the College of San Mateo (2004-2006)