

***Personal Information:***

**Name:** Samira

**Surname:** Hassanzadeh

**Current status:** Ph.D. in optometry, Assistant professor; Mashhad University of Medical Sciences.

**Address:** Room 301, Optometry department, Paramedical college, Ferdowsi University Campus, Azadi Square, Mashhad, Iran.

**E-mail:** [hasanzadehs@mums.ac.ir](mailto:hasanzadehs@mums.ac.ir)

**Nationality:** Iranian

Present resident in Iran

***Academic Background:***

■ **Ph.D. in optometry**

**2016- Feb 2021**

**Institution:** para medical College, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran

**Thesis title:** to assess the effect of intense pulse light therapy in patients with meibomian gland dysfunction: a randomized clinical trial.

**Overall GPA:** 19.38 out of 20

■ **Sabbatical**

**Jan 2020-Jul 2020**

**Institution:** Ocular surface lab, department of ophthalmology, School of medical and health sciences, the University of Auckland, New Zealand.

**Supervisor:** Prof. Jennifer P. Craig

**Research Title:** Applying artificial intelligence to improve meibomian gland dysfunction diagnosis.

■ **MMSc. in medical education**

**2012- 2014**

**Institution:** medical College, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran.

**Thesis title:** to assess learning styles among Iranian ophthalmology residents.

■ **M.Sc. in Optometry** **2006-2009**

**Institution:** Paramedical College, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran.

**Thesis title:** A Study on the sensitivity of PSRT, red target perimetry, color vision and VEP tests in early detection of ocular side effects from hydroxychloroquine.

**Overall GPA:** 18.42 out of 20.0 (graduated as cum laude)

■ **B.S. in Optometry** **2000-2004**

**Institution:** Paramedical College, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran.

**Thesis title:** Shock-Hartmann aberrometer & wavefront sensing (principles, applications and advances).

**Overall GPA:** 16.91 out of 20.0 (graduated as summa cum laude)

***Research interests:***

- Dry eye and anterior surface diseases
- Ophthalmic imaging, corneal biomechanics and refractive surgery
- Special contact lenses for keratoconus, irregular corneas and post refractive surgery
- Diagnostic techniques in ophthalmology using machine learning, artificial intelligence, and deep learning

***Experiences:***

- Head of contact lens clinic of **2013-2017**  
Khatam Eye Hospital, Mashhad, Iran
- Supervisor of optometry rounds **2011-2017**  
of ophthalmology residents
- Teaching assistant and lecturer: **2009-present**  
Department of optometry, Paramedical College, Mashhad University of Medical Sciences, Mashhad, Iran
- Member of refractive error research center **2005-present**

- Head of Optometry clinic of Khatam Eye Hospital, Mashhad, Iran. **2005-2010**

### ***Teaching courses***

- Pediatric optometry
- Optometric procedures
- Contact lenses I & II
- Optometry clinics
- Advanced para clinical tests (MSc. Students)
- Optic lab

### ***Researches:***

- To Assess the Agreement of Two Scheimpflug-Based Imaging Systems (Sirius and Pentacam HR) in Ocular Anterior Segment Evaluation of Normal Participants. **(2021)**
- Comparison of patient's tearfilm and meibomian gland dysfunction after Trans photorefractive keratectomy and photorefractive keratectomy. **(2020)**
- To assess the agreement of PERAMIS wavefront- based refraction, dry and cycloplegic auto refraction and subjective refraction in refractive surgery candidates. **(2020)**
- Ocular surface changes and meibomian glands' function in patients with dyslipidemia. **(2019)**
- The development and evaluation of self-care system for patients with dry eye. **(2018 to present)**
- Intraocular Pressure comparative assessment after SMILE surgery using Goldmann, Corvis ST, Air-puff and Icare tonometry. **(2018)**
- To assess the effect of intense pulse light therapy in patients with meibomian gland dysfunction: a randomized clinical trial. **(2018)**
- A comparative study on ocular surface changes before and after PRK and SMILE refractive surgeries. **(2018- present)**

- To assess the professionalism in ophthalmology and pediatric residents of Mashhad University of Medical Sciences. **(2018)**
- A comparative study on corneal biomechanical changes after PRK and SMILE refractive surgical techniques. **(2018)**
- A comparison of over minus correction and observation in children with intermittent exotropia, aged 3 to 10 years old. **(2018)**
- To assess refractive changes in premature infants with ROP, after intravitreal bevacizumab injection. **(2016)**
- An assessment of aberrometric changes after upper lid ptosis surgery. **(2014)**
- Normative Values and Contralateral Comparison of Anterior Chamber Depth Measured by Orbscan II in an Iranian Population. **(2013-2014)**
- An assessment of aberrometric changes after strabismus surgery in patients with manifest horizontal ocular deviations. **(2012- 2013)**
- A comparative study on visual and optical performance of Akreus AO and Kantur AB intraocular lenses after phacoemulsification. **(2011- 2012)**
- Correlation between Corneal Endothelial Cell Loss and Location of Phacoemulsification Incision. **(2010-2011)**
- A comparative study on distance estimation in virtual environment between pilots and non- pilots. **(2010-2011)**
- A study on the amount of ocular torsion, measured with slit lamp and 90 D lens. **(Sept. 2009- Feb. 2010)**
- An investigation of relationship between biomechanical factors from ORA device, with corneal volume measured by Pentacam, in normal eyes. **(2009-2010)**
- A comparative study on the ability of color vision, photo stress recovery time, and VEP tests, in early detection of ocular toxicity from hydroxychloroquine, in rheumatoid arthritis and systemic lupus erithmatosus. **(2008-2009).**
- A study on color vision and contrast sensitivity changes, before and after silicone gel injection in to the eye. **(2008)**

- A comparative study on near vision quality, assessed by near contrast sensitivity test, with and without astigmatic correction. **(2008)**
- The comparison of the amount of difference between cycloplegic and non-cycloplegic refraction in different age groups. **(2007)**
- A comparative study on the role of VEP, contrast sensitivity and color vision tests, in early detection of thyroidal compressive optic neuropathy. **(2007)**

### ***Publications***

- Zarei-Ghanavati S, Jafarpour S, **Hassanzadeh S**, Bakhtiari E, Daraee G, Darabi Monadi S, Ziaei M. Changes in Corneal Biomechanical Properties after Small Incision Lenticule Extraction (SMILE) and Photorefractive Keratectomy (PRK), using a non-contact tonometer. *Cornea* 2021; 41(7): 886-893.
- Zarei-Ghanavati S, **Hassanzadeh S**, Azimi Khorasani A, Ehsaei A. The Effect of Meibomian Gland Dysfunction Treatment on Sleep Quality. *J of Current Ophthalmol* 2021; 105(7):687-693.
- Yazdani N, Sadeghi R, Ehsaei A, Taghipour A, **Hasanzadeh S**, Zarifmahmoudi L, Heravian Shandiz J, Under-correction or full correction of myopia? A meta-analysis. *Journal of Optometry* 2021; 17(1):11-19.
- Azimi Khorasani A, Ehsaei A, Gerami M, **Hassanzadeh S**, Yazdani N. The effect of workplace and unusual working hours on dry eye symptoms between petrochemical industry workers Iran *Occupational Health*. 2020; 17(1):41.
- **Hassanzadeh S**, Varmaghani M, Zarei-Ghanavati S , Heravian Shandiz J, Azimi Khorasani A. Global Prevalence of Meibomian Gland Dysfunction: A Systematic Review and Meta-Analysis. *Ocul Immunol Inflamm* 2021; 29(1):66-75.
- Etezzad Razavi M, Shoeibi N, **Hassanzadeh S**, Kianmehr S, Bakhtiari E. Refractive outcome of intravitreal bevacizumab injection in comparison to spontaneous regression of retinopathy of prematurity (ROP). *STRABISMUS* 2020; 28(1): 49–54.

- Zarei – Ghanavati S, Yahaghi B, **Hassanzadeh S**, Ghayour- Mobarhan M, Hakimi HR, Eghbali P. Serum 25-hydroxyvitamin D, Selenium, Zinc and Copper in patients with keratoconus. J of Current Ophthalmol 2020; 32(1): 26-31.
- Abrishami M, Fadakar P, Mirghorbani M, Masoumi A, **Hassanzadeh S**. Effect of night work on image quality of optical coherence tomographyAngiography. J of Current Ophthalmol 2019; 31(4): 438-441.
- Ostadi Moghaddam H, Mohammadi Z, Yazdani N, **Hasanzadeh S**, Sobhani Rad D, Heravian Shandiz J, Khabazkhoob M, Ehsaei A.The Effect of Binocular Disorders and Colored Filters on Reading Ability of Dyslexic Children. JPSR 2019; 8(2): 29-36.
- **Hassanzadeh S**, Karimi Moonaghi H, Derakhshan A, Hosseini SM, Taghipour A. Preferred Learning Styles among Ophthalmology Residents: An Iranian sample. J of Vis Research 2019; 14(4): 483-490.
- Zarei- Ghanavati S, Eslampour A, Shokouhirad S, Mazloun J, Yousefian A, **Hassanzadeh S**, Bakhtiari E, Eghbali P. The effect of eye dominance on patients' cooperation and perceived pain during photorefractive keratectomy (PRK). J of Current Ophthalmol 2019; 31(4): 373- 376.
- Arish M, Bagherzadeh O, Ahmadi SS, Sadeghi-Allahabadi J, **Hassanzadeh S**. Short-Term Results of Sutureless Scleral Tunnel Trabeculectomy Using Adjunctive Topical Bevacizumab. Med Hypothesis Discov Innov Ophthalmol. 2018; 7(2): 63- 7.
- Derakhshan A, Eslampour A, Safinezhad E, **Hassanzadeh S**. The effect of intravitreal bevacizumab injection on the corneal endothelial cells: systematic review. Rev Clin Med 2016; 3 (2): 78- 83.
- GharaeeH, Zabihifard M, Eslampour AR, **Hassanzadeh S**, Shafiei M. A comparative study on visual and optical performance of Akreos AO and Kontur AB IOLs after phacoemulsification cataract surgery. J of Current Ophthalmol 2016; 1-5.
- GharaeeH, Abrishami M, Shafiee M, **Hassanzadeh S**, Abrishami M, Eghbali P. Normative Values and Contralateral Comparison of Anterior Chamber

Depth Measured by Orbscan II in an Iranian Population. *J of Ocular Diseases and Therapeutics* 2014; 2: 40-44.

■ Garaee H, Kargozar A, Daneshvar-Kakhki R, Sharepour M, **Hassanzadeh S**. Correlation between Corneal Endothelial Cell Loss and Location of Phacoemulsification Incision. *J Ophthalmic Vis Res* 2011; 6 (1): 13-17.

■ Heravian H, Saghafi M, Shoeibi N, **Hassanzadeh S**, Shakeri MT, Sharepour M. A comparative study on the ability of color vision, photostress recovery time, and visual evoked potential tests, in early detection of ocular toxicity from hydroxychloroquine. *J Int Ophthalmol* 2011; 31(4): 283-289.

■ Sedaghat MR, Sharepour M, **Hasanzadeh S**, Abrishami M. The corneal volume and biomechanical corneal factors: Is there any correlation? *J Res Med Sci* 2011; 17(1): 32-39.

■ Kargozar A, Saber moghaddam AA, Shakeri MT, **Hasanzadeh S**. The comparison of the amount of difference between cycloplegic and noncycloplegic refraction in different age groups. *Med J of Mashhad university of medical sciences* 2007; 52(3): 165-72.

### ***Presentations***

■ Correlation between Corneal Endothelial Cell Loss and Location of Phacoemulsification Incision. **E- Poster, 20th Congress of Ophthalmology 2010, Tehran, Iran.**

■ A comparative study on the ability of color vision, photostress recovery time, and visual evoked potential tests, in early detection of ocular toxicity from hydroxychloroquine. **Asia ARVO, Singapore, 20-22 Jan 2011.(poster presentation)**

■ A comparative study on the ability of color vision, photostress recovery time, and visual evoked potential tests, in early detection of ocular toxicity from hydroxychloroquine. **9th International yes meeting, Porto, Portugal Sep. 2014 (oral presentation)**

***Awards and Honors:***

- Scholarship award from Mashhad University of Medical Sciences for a sabbatical in the University of Auckland, New Zealand.
- **First dignity** in Iran's Ph.D. candidacy exam, Sep. 2016
- **Third dignity** in Iran's MSc. Candidacy exam, Sep. 2006

***Skills and Qualifications:***

**Software**

- Microsoft Office, SPSS, Med Calc., End note, Comprehensive meta- analysis (CMA), ImageJ.

**Language Proficiency**

- **Farsi** (Persian- native)
- **English** (fluent in speaking, writing, listening and reading)
- **French** (beginner in speaking, writing, listening and reading)
- **Arabic** (basic in in speaking, writing, listening and reading)

***Personal interests:***

- Photography
- Painting, sketching and calligraphy
- Playing musical instrument (Iranian Santoor)
- Sport (running, Fitness)

***References:***

- Available on request