

# Pablo De Gracia

*Associate Professor*

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Website



## Current Position

- 2021 – **Associate Professor**, *Midwestern University, Chicago College of Optometry, Chicago, Illinois.*
- 2016 – 2021 **Assistant Professor**, *Midwestern University, Chicago College of Optometry, Chicago, Illinois.*

## Education

- 2017 **Kellogg School of Management**, “*Business for Scientist and Engineers*”, Northwestern University, Chicago, Illinois.
- 2013 – 2016 **Post-Doctoral Training (Bisgrove Scholar) in optical design and fixational eye movements**, *Barrow Neurological Institute, Phoenix, Arizona.*
- 2008 – 2013 **Doctor of Philosophy: Optics, Optometry, and Vision**, *Spanish National Research Council and Universidad Complutense de Madrid, Spain, VioBio Lab, Thesis Title: “Vision under manipulated aberrations: towards improved multifocal corrections”.*  
Extraordinary Award: best Thesis defended in the academic year 2013/2014.
- 2013 **BSc. Physics**, *Fundamental Physics. School of Physics, Universidad Complutense de Madrid, Spain.*
- 2008 **MSc. in Optics and Optometry**, *School of Optics and Optometry, Universidad Complutense de Madrid, Spain.*
- 2004 **BSc. Optics and Optometry**, *School of Optics and Optometry, Universidad Complutense de Madrid, Spain.*

## Consultant Activities

- 2019 – **Lentechs**, *Columbus, Ohio.*
- 2017 – 2018 **AcuFocus**, *Irvine, California.*
- 2015 – 2018 **Bausch & Lomb**, *Rochester, New York.*
- 2014 **Khawarizmi International College**, *Abu Dhabi, United Arab Emirates.*

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## Peer Review Articles

Published articles can be downloaded by clicking their title.

- 2021 **“Changes in optical quality induced by tilt and decentration of a trifocal and a novel extended depth of focus IOLs in eyes with corneal myopic ablation.”**, *Javier Ruiz-Alcocer, Irene Martinez-Alberquilla, Laureano A. Rementeria-Capelo, Pablo De Gracia, Amalia Lorente-Velazquez*, accepted for publication in *Journal of Refractive Surgery*.
- 2020 **“Optical performance of a trifocal and a novel extended depth of focus (EDoF) intraocular lenses combined with different corneal profiles”**, *Javier Ruiz-Alcocer, Amalia Lorente-Velazquez, Jose Luis Hernandez-Verdejo, Pablo De Gracia, David Madrid-Costa*, *Journal of Refractive Surgery*.
- 2020 **“Optical Tolerance to Rotation of Trifocal Toric IOLs as a function of the cylinder power”**, *Javier Ruiz-Alcocer, Amalia Lorente-Velazquez, Pablo De Gracia, David Madrid-Costa*, *European Journal of Ophthalmology*.
- 2020 **“Evaluation of Two Strategies for Alleviating the Impact on the Circadian Cycle of Viewing Smartphone Screens at Near Distances”**, *Emiliano Teran, Cristo-Manuel Yee-Rendon, Jesus Ortega-Salazar, Pablo De Gracia, Efrain Garcia-Romo, Russell L. Woods*, *Optometry and Vision Science*.
- 2019 **“Dry Eye Disease and Refractive Corrections”**, *David Madrid-Costa, James S. Wolffsohn, Javier Ruiz-Alcocer, and Pablo De Gracia*, *Journal of Ophthalmology*.
- 2019 **“Comparing Habitual and i. Scription Refractions”**, *Nicole M. Putnam, Balamurali Vasudevan, Andre Juarez, Cam Tu Le, Kristine Sam, Pablo De Gracia, and Allissun Hoppert*, *BMC Ophthalmology, Cross-Campus Collaboration*.
- 2017 **“Optimal Orientation for Angularly Segmented Multifocal Corrections”**, *Pablo De Gracia and Andreas Hartwig*, *Ophthalmic and Physiological Optics*, 2017 Sep;37(5):610-623. doi: 10.1111/opo.12402.
- 2016 **“Optical Properties of Monovision Corrections Using Multifocal Designs for Near Vision”**, *Pablo De Gracia*, *Journal of Cataract and Refractive Surgery*, 42, 1501-1510 (2016), Cover image of the Issue.
- 2016 **“Automatic counting of microglial cell activation and its applications”**, *Beatriz Isabel Gallego and Pablo De Gracia*, *Invited Review. Neural Regeneration Research* 11, 1212-1215, doi:10.4103/1673-5374.189166 (2016).
- 2016 **“Perceived image quality with simulated segmented bifocal corrections”**, *Carlos Dorronsoro, Aiswaryah Radhakrishnan, Pablo De Gracia, Lucie Sawides, Susana Marcos*, *Biomedical Optics Express* 7, 4388-4399, doi:10.1364/BOE.7.004388 (2016).
- 2015 **“Automatic method for counting glial cells in healthy and glaucomatous mice retinas”**, *Pablo De Gracia, Beatriz I. Gallego, Blanca Rojas, Ana I. Ramirez, Rosa de Hoz, Juan J. Salazar, Alberto Trivino, Jose M. Ramirez*, *PLoS ONE* 10(11): e0143278.
- 2013 **“Multiple zone multifocal phase designs”**, *Pablo De Gracia, Carlos Dorronsoro and Susana Marcos*, *Optics Letters*, 38, 3526-3529 (2013).

- 2013 **“Astigmatism Impact on Visual Performance: Meridional and Adaptational Effects”**, *Maria Vinas, Pablo De Gracia, Carlos Dorronsoro, Lucie Sawides, Gildas Marin, Martha Hernández and Susana Marcos*, *Optometry and Vision Science*, Vol. 90, No. 12, p 1430-1442.
- 2013 **“Experimental simulation of simultaneous vision”**, *Pablo De Gracia, Carlos Dorronsoro, Alvaro Sanchez-Gonzalez, Lucie Sawides, Susana Marcos*, *Investigative Ophthalmology and Vision Science (IOVS)*,54(1): 415-422.
- 2012 **“Perceptual adaptation to the correction of natural astigmatism”**, *Maria Vinas, Lucie Sawides, Pablo De Gracia, Susana Marcos*, *PLoS ONE* 7(9): e46361. doi:10.1371/journal.pone.0046361.
- 2012 **“Dependence of subjective image focus on the magnitude and orientation of High Order Aberrations”**, *Lucie Sawides, Carlos Dorronsoro, Pablo De Gracia, Maria Vinas, Michael Webster, Susana Marcos*, *Journal of Vision*, 12(8):4, 1-12, <http://www.journalofvision.org/content/12/8/4>, doi:10.1167/12.8.4.
- 2011 **“Vision is adapted to the natural level of blur present in the retinal image”**, *Lucie Sawides, Pablo De Gracia, Carlos Dorronsoro, Michael Webster, Susana Marcos*, *PLoS ONE*. DOI: 10.1371/journal.pone.0027031.
- 2011 **“Contrast sensitivity benefit of adaptive optics correction of ocular aberrations”**, *Pablo De Gracia, Ankit Mathur, Susana Marcos, David Atchison*, *Journal of Vision*, 11(12):5, doi:10.1167/11.12.5.
- 2011 **“Adapting to blur produced by ocular high order aberrations”**, *Lucie Sawides, Pablo De Gracia, Carlos Dorronsoro, Michael Webster, Susana Marcos*, *Journal of Vision* 11(7):21, 1-11, <http://www.journalofvision.org/content/11/7/21>, doi:10.1167/11.7.21.
- 2011 **“Visual acuity under combined astigmatism and coma: Optical and neural adaptation effects”**, *Pablo De Gracia, Carlos Dorronsoro, Enrique Gamba, Gildas Marin, Martha Hernández, Susana Marcos*, *J Vis* February 7, 2011 11(2): 5; doi:10.1167/11.2.5.
- 2010 **“Combining coma with astigmatism can improve retinal image over astigmatism alone”**, *Pablo De Gracia, Carlos Dorronsoro, Enrique Gamba, Gildas Marin, Martha Hernández, Susana Marcos*, *Vision Research* 50 (2010) 2008-2014.
- 2009 **“Experimental test of simulated retinal images using adaptive optics”**, *Pablo De Gracia, Carlos Dorronsoro, Lucie Sawides, Enrique Gamba and Susana Marcos*. *Frontiers in Optics 2009*, San Jose, California, USA, OSA Technical Digest (CD) (Optical Society of America, 2009), paper JWB4.

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### Articles in preparation

- 2021 **“A Bibliometric Analysis of Ophthalmology Journals Compared to Medicine and Surgery: Self-Citation and International Collaboration”**, *Todd D. Whitescarver, Casey L. Anthony, Annette K. Hoskin, James K Aden, Scott E. Gardner, Rupesh Agrawal, Fasika Woreta, Pablo De Gracia, Grant A. Justin*, submitted to *American Journal of Ophthalmology*.
- 2021 **“Fourier Tools for the Evaluation of Commercial Multifocal Designs”**, *Pablo De Gracia*.

- 2021 **“Descriptions of the foveal pit and the internal layers of the macula for patients with axial refractive errors”**, *Emiliano Teran, Abel Ramos, Silvia Paz, Carla Angulo-Rojo, Efrain Romo, Pablo De Gracia*, in preparation.

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## Grants

- 2019 **Intramural Research Funding**, *Midwestern University*, “Spatiotemporal Control of Entrance Pupils”, \$3,292.  
Role: PI
- 2018 **Intramural Research Funding**, *Midwestern University*, “Visual Performance under Presbyopia with Multifocal Solutions”, \$6,473.  
Role: PI
- 2017 **Intramural Research Funding**, *Midwestern University*, “Optimal Orientation of Presbyopic Designs and Relationship between Refractive Error Development and Ocular Movements”, \$15,000.  
Role: PI
- 2017 **Intramural Research Funding**, *Midwestern University*, “Visual Performance of a Multifocal versus a Soft Contact Lens in Established Presbyopes Utilizing Lens Power Profiles”, \$8,000.  
Role: PI
- 2013-2016 **Bigrove Post-Doctoral Grant**, *Science Foundation of Arizona*, “Multifocal Designs for Presbyopia Correction”, Phoenix, USA, \$200,000.  
Role: PI

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## Grants Submitted but not Funded

- 2020 **Translational Research Award**, *CooperVision*, “Role of Fixational Eye Movements in Myopia Progression”, scored in the top 5% , \$399,821.  
Role: PI
- 2017 **Career Development Award**, *American Academy of Optometry*, “Comprehending myopic and presbyopic eyes”, scored, \$197,146.  
Role: PI

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## Patents

- 23-12-2008 **Title:“A method for providing a spectacle ophthalmic lens by calculating or selecting a design”**, *Authors: Marin Gildas, Martha Hernandez, Pablo De Gracia, Susana Marcos, Carlos Dorronsoro*,  
Patent Owner: Essilor International (COMPAIGNE GENERALE D’OPTIQUE)  
Pub.No.: WO/2010/072820  
International Application No.: PCT/EP2009/067876  
Publication Date: 01.07.2010  
International Filing Date: 23.12.2009.

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## Teaching Experience (course director)

- 2018 - 2020 **“Capstone Project: Study Design”**, *Course Director*, Chicago College of Optometry, Midwestern University, course developed from scratch.  
Average of the student evaluations: 4.67 (2019),4.40 (2020) on a 5 point scale

- 2016 - 2021 **“Geometrical Optics”**, *Course Director*, Chicago College of Optometry, Midwestern University, course developed from scratch.  
Average of the student evaluations: 4.63 (2017), 4.89 (2018), 4.77 (2019), 4.64 (2020) on a 5 point scale
- 2016 - 2021 **“Physiological Optics”**, *Course Director*, Chicago College of Optometry, Midwestern University, course developed from scratch.  
Average of the student evaluations: 4.21 (2018), 4.77 (2019), 4.49 (2020), 4.42 (2021) on a 5 point scale
- 2016 - 2021 **“Visual Optics”**, *Course Director*, Chicago College of Optometry, Midwestern University, course developed from scratch.  
Average of the student evaluations: 4.47 (2018), 4.55 (2019), 4.58 (2020), 4.52 (2021) on a 5 point scale

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## Administrative Experience

- 2021 - present **“Curriculum Committee, CCO”**, *Committee Member*.
- 2020 - present **“University Research Committee, MWU”**, *Committee Member*.
- 2019 - 2023 **“Midwestern University Faculty Senate”**, *Senator representing CCO*.
- 2018 - 2019 **“University Research Committee, MWU”**, *Committee Member*.
- 2020 - 2021 **“Faculty Development Committee, CCO”**, *Committee Chair*.
- 2018 - 2020 **“Faculty Development Committee, CCO”**, *Committee Member*.
- 2019 - present **“Capstone Committee, CCO”**, *Committee Member*.
- 2018 - present **“Tenure and Promotion Committee, CCO”**, *Committee Member*.
- 2017 - 2019 **“Capstone Committee, CCO”**, *Chair*.
- 2017 - 2018 **“Admissions Committee, CCO”**, *Committee Member*.
- 2016 - present **“Research Committee, CCO”**, *Committee Member*.
- 2016 - 2017 **“Curriculum Committee, CCO”**, *Committee Member*.

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## Awards and honors

- 2020 **National Eye Institute Travel Grant**, *Association for Research on Vision and Ophthalmology, ARVO*, Baltimore, Maryland, US.
- 2019 **Faculty of the Year**, *Class of 2022*, Chicago College of Optometry, Midwestern University.
- 2017 **President’s Circle Member**, *American Academy of Optometry*.
- 2015 **Extraordinary Doctoral Award**, *Pablo De Gracia*, conceded by the University Complutense of Madrid to the best doctoral thesis defended at the School of Optics and Optometry during the academic year 2013/2014. Madrid, Spain.
- 2013 **Bisgrove Scholar Award**, *conceded by the Arizona Science Foundation this distinction consist in \$200,000 extended during two years and a half for the development of a project as post-doc*.
- 2012 **Fellow of the American Academy of Optometry, FAAO**.
- 2012 **Mike Daley - William C. Ezell Fellow**, this award is given by the American Academy of Optometry to doctoral students with an outstanding performance in the field of Vision Science, \$9,500.

- 2012 **SPIE Scholarship in Optics and Photonics**, *this award is given by the International Society for Optics and Photonics to doctoral students with the potential to outreach during their careers on the field of optics, \$2,000.*
- 2011 **Irvin M. Borish - William C. Ezell Fellow**, *this award is given by the American Academy of Optometry to doctoral students with an outstanding performance in the field of Vision Science, \$9,500 .*
- 2010 **Associate Founders Award at XI Wavefront and Presbyopic Refractive Corrections Meeting**, *to the presentation with title: "Using Adaptive Optics to test the spatial neural adaptation to blur", Co-author.*
- 2008 **Best academic record of the 2006-2008 promotion of the MSc in Optics, Optometry and Vision Science**, *40 students, Universidad Complutense de Madrid.*
- 2008 **Award to the best communication presented in "III Jornadas Complutenses y II Congreso Nacional de Investigación para Alumnos de Pregrado en Ciencias de la Salud"**, *to the presentation with title: "Application of polarimetric technics to determine the transmission in optical materials".*
- 2006 **Award to the second best communication presented in "I Jornadas de Investigación de Alumnos de Pregrado en Ciencias de la Salud"**, *to the presentation with title: "Stereopsis and anisometry: Performance of two test".*
- 06/04–08/04 **Undergraduate Summer Fellowship Program in Vision Science**, *Center for Visual Science. University of Rochester, Nueva York, Advisor: Geunyoung Yoon.*
- 2004 **Prats Óptica, S.A Award**, *to one of the best academic record among the third-year students. First Place.*
- 2003 **INDO Award**, *to the best academic record among the students of second year.*

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## Short Stays

- 2010 **"Queensland University of Technology"**, *School of Optometry and Institute of Health and Biomedical Innovation, Brisbane, Australia, Advisor: David Atchison, 3 months.*
- 2004 **"University of Rochester"**, *Flaum Eye Institute, Rochester, USA, Advisor: Geunyoung Yoon, 2 months.*

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## Experience Organizing R+D+I activities

- 2019 - **Photonics**, *Role: Reviewer Board.*
- 2019 **Association for Research on Vision and Ophthalmology, ARVO**, *Role: Paper Session Moderator, "Intraocular Lenses and Presbyopia Correction".*
- 2019 **Journal of Ophthalmology**, *Role: Guest Editor, "Dry Eye Disease and Refractive Corrections".*
- 2018 - 2021 **Association for Research on Vision and Ophthalmology, ARVO**, *Role: Panel Member, "Diversity Committee".*
- 2018 **Association for Research on Vision and Ophthalmology, ARVO**, *Role: Paper Session Moderator, "Lens Optics and IOLs".*

- 2017 **Association for Research on Vision and Ophthalmology, ARVO**, *Role: Poster Session Moderator*, “Anterior Segment imaging and optics”.
- 2014 **Vision Science and Eye Research Meeting, VISER**, *Sociedad Espanola de Optometria Clinica*, *Role: Scientific Committee*.

### Grant Reviewer

- 2018 - 2019 **Early Career Reviewer Program**, *National Institute of Health (NIH), United States of America*.
- 2016 **National Science Centre**, *Poland*.

### Journal Editor

**Frontiers**, *Perception Science*.

### Journal Reviewer

**Scientific Reports - Nature**.  
**Investigative Ophthalmology and Vision Science**.  
**Journal of Cataract and Refractive Surgery**.  
**Journal of Refractive Surgery**.  
**Ophthalmic and Physiological Optics**.  
**Current Eye Research**.  
**Journal of Vision**.  
**Biomedical Optics Express**.  
**Translational Vision Science and Technology**.  
**JOSA A**.  
**Vision Research**.  
**Optometry and Vision Science**.  
**Plos One**.  
**Journal of Ophthalmology**.  
**Journal of Neuroscience Methods**.  
**International Journal of Molecular Sciences**.  
**Sensors**.  
**Optical Engineering**.  
**Chinese Optics Letters**.  
**Frontiers in Psychology**.  
**Frontiers in Neuroscience**.  
**Neural Regeneration Research**.  
**Optica Applicata**.  
**Eye and Vision**.  
**Medicines**.  
**Vision**.

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## Invited Lectures

- October 2021 **“Understanding Multifocal Contact Lenses: Presbyopia and Myopia Control”**, *Pablo De Gracia*, Tho Ohio State College of Optometry, Columbus, Ohio, USA.
- June 2019 **“Vision in a blurred world: object motion, eye movements, and optical blur”**, *Pablo De Gracia*, Schnurmacher Institute for Vision Research, SUNY College of Optometry, New York, USA.
- June 2018 **“Nuevas Soluciones Multifocales para Pacientes Presbitas”**, *Pablo De Gracia*, IX National Conference on Health-Care Applied Technologies, Puebla, Mexico.
- March 2018 **“Disenos Multifocales para la Presbicia”**, *Pablo De Gracia*, IX Congreso Nacional de Optometria, Queretaro, Mexico.
- February 2018 **“Optical Properties of Presbyopic Solutions”**, *Pablo De Gracia*, Wavefront and Presbyopic Refractive Corrections, Denver, USA.
- April 2017 **“Extending the depth of focus of the eye. Improved solutions for presbyopia”**, *Kenneth A. Suarez Research Day*, *Midwestern University*, Phoenix, Arizona.
- February 2016 **“Optimizing monovision and multifocal corrections”**, *OSA Student Chapter at Universidad del Atlantico (CEOA)*, Barranquilla, Colombia.
- September 2014 **“Monovision performance and lens designs”**, *Arizona Chapter of the American Academy of Optometry*, American Academy of Optometry Meeting. Phoenix, USA.
- October 2012 **“The influence of the amount of power addition in simultaneous vision”**, *Ezell Fellow Gallery*, American Academy of Optometry Meeting. Phoenix, USA.
- October 2012 **“Evaluation of simultaneous vision corrections”**, *Irvin M. Borish Festschrift*, American Academy of Optometry Meeting. Phoenix, USA.
- July 2012 **“Fighting presbyopia: new multifocal solutions and the neural adaptation effects ensued”**, *Institute for Theoretical Physics, University of Bremen*, Germany.
- February 2012 **“The visual system: from the optical image to the individual perception”**, *VIII Seminars in physiology and ocular pathology*, Department of Ophthalmology, School of Optics and Optometry. Universidad Complutense de Madrid, Spain.
- March 2008 **“Application of polarimetric technics to determine the transmission in optical materials”**, *Pablo De Gracia*, Seminars in Bio-Optics. Department of Optics. School of Optics and Optometry. Universidad Complutense de Madrid, Spain.



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## Mentored Students in Research Activities

Lilliana Lopez, Todd Whitescarver, Chelsea Des Rosiers, Brian Helmetag, Ashley Coots, Keyur Savla, Matthew McGee, Maryam Ali, Jourdan Valkner, Michael Tran, Zachary Goodman, Garrett Pashak, Nicole Purrier, Andrew Marcell, Sara Javidinejad, Tylar Dickson, Daman Singh, Sara Javidinejad, Hiral Patel, Emily Ong, Azra Wazir, Francisco Costela, Alvaro Sanchez-Gonzalez.

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## PhD Thesis Committees

- 2018-present “**Keyur Savla**”, *University of Alabama at Birmingham*, Birmingham, Alabama, USA.
- 2020-present “**Augustine Nti**”, *University of Houston*, Houston, Texas, USA.

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## Contribution to Meetings

- Nov 2021 “**Effect of Pupil Size on MiSight Contact Lens Optics**”, *Keyur Savla, Tylar Dickson, Salmaan Akhtar, Andrew Pucker, Pablo De Gracia*, American Academy of Optometry Meeting, Boston, USA.
- Nov 2021 “**Visual performance with myopia controlling multifocal contact lenses in scenes with multiple object vergences**”, *Hiral Patel, Brian Helmetag, Sara Javidinejad, Emily Ong, Ashley Coots, Azra Wazir, Pablo De Gracia*, American Academy of Optometry Meeting, Boston, USA.
- Nov 2021 “**Biofinity Multifocal Lenses: Monovision or Multifocal Vision**”, *Sara Javidinejad, Tylar Dickson, Hiral Patel, Emily Ong, Azra Wazir, Pablo De Gracia*, American Academy of Optometry Meeting, Boston, USA.
- Nov 2021 “**Through Focus Microsaccade Characteristics for Emmetropic and Myopic Patients as a Function of the Frequency Content of Targets**”, *Pablo De Gracia, Emily Ong, Zachary Goodman, Azra Wazir, Hiral Patel, Sara Javidinejad*, American Academy of Optometry Meeting, Boston, USA.
- Nov 2021 “**Through Focus Microsaccade Characteristics when using Multifocal Contact Lenses in Myopes and Emmetropes**”, *Brian Helmetag, Emily Ong, Matthew McGee, Azra Wazir, Sara Javidinejad, Hiral Patel, Pablo De Gracia*, American Academy of Optometry Meeting, Boston, USA.
- Sep 2021 “**Microsaccade Characteristics with the Application of Multifocal Contact Lenses: Trends in Myopes and Emmetropes**”, *Emily Ong, Brian Helmetag, Matthew McGee, Azra Wazir, Pablo de Gracia*, British Congress of Optometry and Vision Science 2021.
- Sep 2021 “**Visual Performance with Myopia- Controlling Contact Lenses in Scenes with Multiple Object Vergences**”, *Hiral Patel, Brian Helmetag, Sara Javidinejad, and Pablo De Gracia*, British Congress of Optometry and Vision Science 2021.
- June 2021 “**Optical Coherence Tomography and a Down Hill Simplex Algorithm to Retrieve the Retinal Morphology of Myopia Patients**”, *Emiliano Teran, Pablo De Gracia, Abel Ramon, Silvia Paz-Camacho, Carla Angulo Rojo*, European Conference in Biomedical Optics, Virtual, Optical Society of America.

- May 2021 **“Microsaccade Frequency, Magnitude, and Peak Velocity when using Multifocal Contact Lenses”**, *Pablo De Gracia, Matthew McGee, Brian Helmetag, Zachary Goodman, Amy Stein, Todd Whitescarver*, Association for Research and Vision in Ophthalmology, Virtual.
- May 2021 **“Machine-Learning Predictor of Refractive Error from Foveal Pit Characteristics”**, *Emiliano Teran, Pablo De Gracia, Arturo Yee-Rendon, Silvia Paz-Camacho, Abel Ramon, Carla Angulo Rojo, Omar Garcia Lievanos*, American Academy of Optometry Meeting, Nashville, USA.
- May 2021 **“Desempeno Optico de una Nueva Lente Intraocular de Foco Extendido con Diferentes Perfiles Corneales”**, *Javier Ruiz Alcocer, Irene Martinez Alberquilla, Pablo De Gracia, David Madrid Costa*, Congreso de Optometria, Contactologia, y Optica Oftalmica, Spain, Consejo Nacional de Opticos Optometristas.
- October 2020 **“Fixational Eye Movements influence in Subject’s Level of Refractive Error”**, *Zachary Goodman, Matthew McGee, Ashley Coots, Brian Helmetag, Pablo De Gracia*, American Academy of Optometry Meeting, Nashville, USA.
- October 2020 **“Microsaccade Magnitude and Peak Velocity when Using Multifocal Contact Lenses”**, *Matthew McGee, Maryam Ali, Brian Helmetag, Zachary Goodman, Pablo De Gracia*, American Academy of Optometry Meeting, Nashville, USA.
- October 2020 **“Use of Spatial Light Modulators for Spatiotemporal Control of Entrance Pupils”**, *Jourdan Valkner, Maryam Ali, Pablo De Gracia*, American Academy of Optometry Meeting, Nashville, USA.
- October 2020 **“Effects of Myopia Controlling Multifocal Contact Lenses during Visual Display Terminal Use”**, *Michael Tran, Chelsea Des Rosiers, Pablo De Gracia*, American Academy of Optometry Meeting, Nashville, USA.
- October 2020 **“Machine-Learning Predictions of Refractive Error from Foveal Pit Morphology”**, *Emiliano Teran-Bobadilla, Pablo De Gracia, Abel Ramon, Silvia Paz-Camacho, Efrain Romo-García, Arturo Yee-Rendon, Carla Angulo-Rojo*, American Academy of Optometry Meeting, Nashville, USA.
- May 2020 **“Microsaccades: A Biomarker for Preventing the Development of Myopia”**, *Pablo De Gracia, Brian Helmetag, Ashley Coots, and Sara Javidinejad*, Association for Research and Vision in Ophthalmology, Baltimore, Maryland, USA.
- May 2020 **“Disk Diameter of the Foveal Pit as a Biomarker for Refractive Error”**, *Emiliano Teran-Bobadilla, Pablo De Gracia, Silvia Paz-Camacho, Efrain Romo-Garcia*, Association for Research and Vision in Ophthalmology, Baltimore, Maryland, USA.
- October 2019 **“Microsaccades in Emmetropic, Myopic, and Hyperopic Patients”**, *Ashley Coots, Chelsea Des Rosiers, Brian Helmetag, Nicole Purrier, Pablo De Gracia*, American Academy of Optometry Meeting, Orlando, USA.
- October 2019 **“Measurement of Microsaccades when Using Multifocal Contacts”**, *Brian Helmetag, Chelsea Des Rosiers, Ashley Coots, Nicole Purrier, Pablo De Gracia*, American Academy of Optometry Meeting, Orlando, USA.
- October 2019 **“Ocular Complications of Myopia Control Methods During VDT Use”**, *Chelsea Des Rosiers, Brian Helmetag, Ashley Coots, Nicole Purrier, Pablo De Gracia*, American Academy of Optometry Meeting, Orlando, USA.

- October 2019 **“Morphological Descriptions of the Foveal Pit as a Function of the Axial Refractive Error”**, *Emiliano Teran-Bobadilla, Pablo De Gracia, Silvia Paz-Camacho, Efrain Romo-Garcia*, American Academy of Optometry Meeting, Orlando, USA.
- October 2019 **“Correcting Low Levels of Astigmatism Increases Visual Acuity in Presbyopic Patients Fitted with Multifocal Soft Contact Lenses”**, *Javier Rojas, Pablo De Gracia*, American Academy of Optometry Meeting, Orlando, USA.
- May 2019 **“State of the art Optical System for Studying Topics on the Interface of Binocular Vision, Ocular Movements, and Refractive States”**, *Todd Whitescarver, Nicole Purrier, Chelsea Des Rosiers, Brian Helmetag, Ashley Coots, Pablo De Gracia*, Kenneth Suarez Research Day, Chicago, USA.
- May 2019 **“Segmentation Tools for the Fourier Evaluation of Commercially Available Multifocal Contact Lenses”**, *Pablo De Gracia, Chelsea Des Rosiers, Todd Whitescarver*, ARVO Meeting, Vancouver, Canada.
- May 2019 **“UV protection of contact lenses under outdoor light environments: beach, snow and city”**, *Emiliano Teran, Pablo De Gracia, Efrain Romo-Garcia, Jesus Ortega*, ARVO Meeting, Vancouver, Canada.
- November 2018 **“Understanding the Optical Properties of Commercial Multifocal Contact Lenses ”**, *Pablo De Gracia, Andrew Marcell, Chelsea Des Rosiers, Garrett Pashak, Nicole Purrier*, American Academy of Optometry, San Antonio, USA.
- November 2018 **“Assessment of the photochemical retinal damage due to blue-light filtering spectacles and contact lenses with UV protection”**, *Emiliano Teran; Erick Urias; Rosalio Ramos; Pablo De Gracia; Carlos MartÌnez; Rosalia Ramirez; Edith Cuevas, CuauhtÈmoc Reyes and Jose I. Camacho*, American Academy of Optometry, San Antonio, USA.
- May 2018 **“Study of the optical properties of two brands of commercial multifocal contact lenses (steep vs smooth addition increase) in combination with the higher order aberrations of 65 eyes”**, *Pablo De Gracia, Nicole Purrier, Chelsea Des Rosiers, Andrew Marcell, Garrett Pashak*, ARVO Meeting, Hawaii, USA.
- May 2018 **“On the smartphone’s light emission and its blue light contribution”**, *Emiliano Teran, Pablo De Gracia, Cristo-Manuel Yee-Rendon, Jesus Ortega, Joel Molina-Reyes, Romo Efrain*, ARVO Meeting, Hawaii, USA.
- May 2018 **“Prevalence of myopia in German kids and teenagers over a period of 30 years”**, *Andreas Hartwig and Pablo De Gracia*, ARVO Meeting, Hawaii, USA.
- Oct 2017 **“Optical properties of commercial multifocal contact lenses when combined with the higher order aberrations of 65 eyes with varying pupil sizes”**, *Pablo De Gracia*, American Academy of Optometry Meeting, Chicago, Illinois, USA.
- Oct 2017 **“Comparing Habitual and i.Scription Refractions”**, *Balamurali Vasudevan, Nicole M. Putnam, Andre Juarez, Cam Tu Le, Kristine Sam, Pablo De Gracia, and Allissun Hoppert*, American Academy of Optometry Meeting, Chicago, Illinois, USA.

- Oct 2017 **“Evaluation of the increased levels of UV radiation reaching the eye due to the outdoor use of smartphones”**, *Emiliano Teran-Bobadilla, Joel Molina-Reyes, Pablo De Gracia, Jorge Martinez-Gaytan, Carlos Martinez-Gaytan, and Rosalia Ramirez-Jaimes*, American Academy of Optometry Meeting, Chicago, Illinois, USA.
- Oct 2017 **“Prevalence of refractive errors among Mexican students in the northwest of Mexico”**, *Emiliano Teran-Bobadilla, Carlos Martinez-Gaytan, Rosalia Ramirez-Jaimes, Jorge Martinez-Gaytan, and Pablo De Gracia*, American Academy of Optometry Meeting, Chicago, Illinois, USA.
- Sep 2017 **“Change in the prevalence of myopia in Germany over a period of 30 years”**, *Andreas Hartwig and Pablo De Gracia*, The International Myopia Conference, Birmingham, United Kingdom.
- May 2017 **“Light absorption by the retina in patients with diabetic retinopathy”**, *Emiliano Teran-Bobadilla, Pablo De Gracia, Efrain Romo, Abundis Patino, Jesus Humberto, Karla Chavez, Imaging in the Eye 2017*, Association for Research and Vision in Ophthalmology, Baltimore, Maryland, USA.
- May 2017 **“Optimization of the Kamra inlay for a large population of subjects”**, *Pablo De Gracia, Andreas Hartwig, ARVO 2017*, Association for Research and Vision in Ophthalmology, Baltimore, Maryland, USA.
- October 2016 **“Counting of microglial cells in the adult retina”**, *B.I. Gallego, Pablo De Gracia, A.I. Sebastian, R. De Hoz, J.J.Salazar, B.Rojas, A.Trivino, J.M.Ramirez, European Association for Vision and Eye Research 2016*, Nice, France.
- May 2016 **“Optimal orientation for angularly segmented multifocal corrections”**, *Pablo De Gracia, Andreas Hartwig, ARVO 2016*, Association for Research and Vision in Ophthalmology, Seattle, Washington, USA.
- October 2015 **“Customized prescription of multifocal and monovision solutions for 782 subjects”**, *Pablo De Gracia, Andreas Hartwig, American Academy of Optometry meeting 2015*, American Academy of Optometry, New Orleans, USA.
- May 2015 **“Optical performance of multifocal designs in subjects with residual astigmatism, coma, and spherical aberration”**, *Pablo De Gracia, ARVO 2015*, The Association for Research in Vision and Ophthalmology, Phoenix, USA.
- November 2014 **“Rendimiento visual bajo condiciones de monovision”**, *Pablo De Gracia*, Vision Science and Eye Research Meeting. Santiago de Compostela, Spain.
- November 2014 **“Modified monovision performance as a function of lens design”**, *Pablo De Gracia, AAO meeting 2014*, American Academy of Optometry, Denver, USA.
- May 2014 **“Visual testing of segmented bifocal corrections with a compact simultaneous vision simulator”**, *C. Dorrnsoro, A. Radhakrishnan, P. de Gracia, L. Sawides, J. R. Alonso-Sanz; D. Cortes; S. Marcos. ARVO 2014*, The Association for Research in Vision and Ophthalmology, Orlando, USA.
- May 2013 **“Visual acuity in the presence and correction of astigmatism using Adaptive Optics”**, *Maria Vinas, P. de Gracia, C. Dorrnsoro, L. Sawides, G. Marin, M. Hernandez, S. Marcos. ARVO 2013*, The Association for Research in Vision and Ophthalmology, Seattle, USA.
- January 2013 **“Testing the effect of astigmatism on vision with Adaptive Optics”**, *M. Vinas, P. de Gracia, C. Dorrnsoro, L. Sawides, S. Marcos. IONS 2013*, Optical Society of America, Zurich, Switzerland.

- October 2012 **“A new automatic method for counting microglial cells in healthy and glaucomatous retinas”**, *P. de Gracia, B. I. Gallego*, AAO 2012, American Academy of Optometry. Phoenix USA.
- September 2012 **“Patterns classification strategy to test natural adaptation to the high order aberrations of the eye”**, *L. Sawides, C. Dorronsoro, P. de Gracia, Maria Vinas, M.A. Webster, A. Haun, E. Peli, S. Marcos*. EMVPO 2012, European Meeting on Visual and Physiological Optics, Dublin, Ireland.
- May 2012 **“Visual performance under pure simultaneous vision”**, *P. de Gracia, C. Dorronsoro, Alvaro Sanchez-Gonzalez, L. Sawides, S. Marcos*. ARVO 2012, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- May 2012 **“Longitudinal changes in perceptual judgment of astigmatic blur”**, *Maria Vinas, L. Sawides, P. de Gracia, S. Marcos*. ARVO 2012, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- May 2012 **“Natural adaptation to the orientation of high order aberrations”**, *L. Sawides, C. Dorronsoro, P. de Gracia, Maria Vinas, M.A. Webster, A. Haun, E. Peli, S. Marcos*. ARVO 2012, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- May 2012 **“Visual performance under pure simultaneous vision”**, *P. de Gracia, C. Dorronsoro, Alvaro Sanchez-Gonzalez, L. Sawides, S. Marcos*. PARD 2012, Panamerican Research Day. Pan-American Association of Ophthalmology, Fort Lauderdale, USA.
- February 2012 **“Adaptive optics as a tool to study changes in neural adaptation to astigmatism”**, *M. Vinas, L. Sawides, P. de Gracia, S. Marcos*. IONS 2012, Optical Society of America, Paris, France.
- February 2012 **“Adaptive optics to test adaptation to the eye’s optics”**, *L. Sawides, P. de Gracia, M. Vinas, C. Dorronsoro, M. Webster, S. Marcos*. IONS 2012, Optical Society of America, Paris, France.
- June 2011 **“Benefit of adaptive optics correction of ocular high order aberrations on contrast sensitivity”**, *P. de Gracia, Susana Marcos, Ankit Mathur, David Atchison*, 8th International Workshop on Adaptive Optics for Industry and Medicine, Murcia, Spain.
- June 2011 **“Shift of the neutral perceived focus after correction of astigmatism: evidence using adaptive optics”**, *Maria Vinas, Lucie Sawides, P. de Gracia, Susana Marcos*, Engineering the eye, Benasque, Spain.
- June 2011 **“Adaptive optics as a tool to study changes in the perceived neutral point after correction of astigmatism”**, *Maria Vinas, Lucie Sawides, P. de Gracia, Susana Marcos*, 8th International Workshop on Adaptive Optics for Industry and Medicine, Murcia, Spain.
- May 2011 **“Exploring the input of optical blur on vision”**, *L. Sawides, P. de Gracia, C. Dorronsoro, E. Gamba, M. Webster, S. Marcos*. ARVO 2011, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- October 2010 **“Etude du bénéfice visuel lié a la combinaison d’aberrations”**, *Gildas Marin, Martha Hernandez, Pablo De Gracia, Carlos Dorronsoro, Enrique Gamba, Susana Marcos*, Journées Recherche Industrie de l’Optique Adaptative, Paris France.

- August 2010 **“Subjects are naturally adapted to their own optical aberrations”**, Susana Marcos, Lucie Sawides, Pablo De Gracia, Carlos Dorronsoro, M. Webster EMVPO 2010, EOS European Meeting of Vision and Physiological Optics, Stockholm.
- May 2010 **“Performance Evaluation of Simultaneous Vision Multifocal Contact Lenses”**, C. Dorronsoro, L. Llorente, R.G. Anera, M.J. González, P. de Gracia, S. Marcos., Treating Presbyopia: Multifocality, Pseudoaccommodation, and Restoring Accommodation - Minisymposium. Fort Lauderdale, Florida. Invited Conference, ARVO 2010, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- May 2010 **“Adapting to Blur Produced by Ocular High Order Aberration”**, L. Sawides, P. de Gracia, C. Dorronsoro, E. Gamba, M. Webster, S. Marcos. ARVO 2010, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- May 2010 **“Visual Performance with Combined Astigmatism and Coma: Optical and Neural Adaptation Effects”**, P. de Gracia, C. Dorronsoro, G. Marin, M. Hernandez, S. Marcos. ARVO 2010, The Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA.
- February 2010 **“Using Adaptive Optics to test the spatial neural adaptation to blur”**, Susana Marcos, Lucie Sawides, Pablo De Gracia, Carlos Dorronsoro, Enrique Gamba, Michael Webster. XI Wavefront and Presbyopic Refractive Corrections Meeting, The American Academy of Optometry, San Francisco, USA.
- February 2010 **“Is the retinal image well represented by a convolution?”**, P. de Gracia. Jornadas de Jóvenes Investigadores en Óptica Visual 2010, Red Temática Española en Óptica y Fotónica Visual, Madrid, Spain.
- September 2009 **“Lines of Research of the Visual Optics and Biophotonics Laboratory at the Institute of Optics”**, Susana Marcos, Sergio Barbero, Carlos Dorronsoro, Alberto de Castro, Pablo De Gracia, Enrique Gamba, Ignacio Jimenez-Alfaro, Sabine Kling, Lourdes Llorente, Carlos Meneses, Jesus Merayo, Sergio Ortiz, Daniel Pascual, Alfonso Perez-Escudero, Laura Remon, Jose Requejo, Lucie Sawides, Damian Siedlecki. IX Reunión Nacional de Óptica, Orense, Spain.
- September 2009 **“Influence of High Order Aberrations on Accommodation”**, Enrique Gamba, Lucie Sawides, Carlos Dorronsoro, Pablo De Gracia, Jing Yuan, Yinan Wang, Philip B. Kruger, Susana Marcos. IX Reunión Nacional de Óptica, Orense, Spain.
- April 2008 **“Application of polarimetric technics to determine the transmission in optical materials”**, III Jornadas Complutenses y II Congreso Nacional de Investigación, Universidad Complutense, Facultad de Medicina, Madrid, Spain.
- April 2006 **“Stereopsis and anisometry: Performance of two different test”**, I Jornadas Complutenses, Alumnos Pregrado, Universidad Complutense, Facultad de Odontología, Madrid, Spain.

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## Languages

Spanish	<b>Native</b>
English	<b>Reading (Fluent)</b>
	<b>Writing (Fluent)</b>
	<b>Oral (Fluent)</b>

2020 **“Science’s Language Challenges”**, *Optics and Photonics News*, Mario A. Acero, Cristian-Mejia Cortes, and Pablo De Gracia.

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## Miscellaneous

2006-2007 **Full Optometry Practice at Visionlab Clinics**, *Refraction, Contact Lenses, and Ophthalmic lab. Summers of 2006 and 2007. Six months total.*

2006-2008 **Information Technology Services**, *School of Optics and Optometry at University Complutense of Madrid, Spain. Support for students and Professors when using Learning Management Systems.*