

Curriculum Vitae

Stig Arne Jörgen Gustafsson, PhD, FAAO

Born: March 17, 1954

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Education/training

PhD studies, Lund University, Sweden 2000-2004

Contact lens education, Institute of Optometry, Stockholm, Sweden 1984-1986

Optometry education, Institute of Optometry, Stockholm, Sweden 1982-1984

Optics/optometry education College of Optics, Borensberg, Sweden 1972 -1978

Present Appointments as consultant

Associate Professor/researcher, Masinde Muliro University of Science and Technology (MMUST), Kakamega, Kenya

Associate Lecturer, University of Southeast Norway (USN), Kongsberg, Norway

Principal investigator for project "Synkomfort" at Marianne Bernadotte Centrum, ST Eriks Eye Hospital, Karolinska Institute, Stockholm, Sweden

Associate Lecturer, for master students at Linnaeus University (LNU) Kalmar, Sweden

Previous Appointments

Professor II, University of Southeast Norway, Kongsberg Norway 2014 - 2024

Senior Product Advisor, Multilens AB, Mölnlycke, Sweden 2013 – March 2021.

Associate Professor in optometry (Senior Lecture), School of Optometry, Linnaeus University, Kalmar, Sweden 2006 - 2012

Head and founder of the Vision Enabling laboratory www.lnu.se/ve

Post doc research fellowship (Fulbright Grant) at the VA Rehabilitation Research and Development Center of Excellence for Aging Veterans with Vision Loss (Emory University), Atlanta, Georgia, USA. February – May 2006

Optometrist and head of the Low Vision Enabling (LVE) laboratory, Certec, Lund University, Sweden. 2002 – May 2006.

Principal optometrist, private visual rehabilitation, Synkliniken (Vision Clinic), Lund Sweden. 2005–2006.

PhD research in the Widesight Project, Certec, Lund University, Sweden. January 2000 – October 2004.

Principal optometrist, private visual rehabilitation, Synkliniken (Vision Clinic), Gothenburg, Sweden. 1999 – 2004.

Other Certec projects financed by the Swedish Knowledge Foundation in the area of IT and health. 1999.

Widesight and PEER Projects, Certec, Lund University, Lund, Sweden. 1996 – 1999.

Consulting low vision optometrist at AMI-S/syn (Employability Institute with Special Resources for Visually Impaired People), Växjö, Sweden. 1992 – 2001.

Principal optometrist, Ryhov County Hospital Eye Clinic, Low vision center, Jönköping, Sweden. 1982 – 1999.

Private practice in Värnamo, Sweden during and after optometry/optics education. 1972 – 1982.

Teaching Experience

Lecturer at Masinde Muliro University of Science and Technology (MMUST) 2023 – to date

Guest Lecturer at School of Optometry, Linnaeus University, Kalmar, Sweden 2022 – to date

Lecturer at School of Optometry, University of Southeast Norway, Kongsberg Norway 2014 – to date

Lecturer at School of Optometry, Linnaeus University, Kalmar, Sweden 2005 – 2013

Developed the course “Optometric Rehabilitation” at the time in Lund University and implementer nine (9) courses for optometrist and low vision therapists in Scandinavia. This was started in Lund 2005 and continued at Linnaeus University in Kalmar, Sweden 2005 - 2013

Teaching in vision and optics at various courses at Lund University, Sweden 1999 - 2006

Guest lecturer at the School of Optometry, Karolinska Institute, Stockholm, Sweden 1999-2004

Lecture at the institute of Optometry, Stockholm, Sweden 1989 -1992

Supervision Experience

Peter Lewis – Doctoral thesis “The Evaluation of Peripheral Dynamic Visual Acuity” – presented May 2016.

Karthikeyan Baskaran – Doctoral thesis “Optimal use of peripheral vision” 2009 - presentation December 2012

Baskar Theagarayan “Manipulation of ocular aberrations in Myopes” – Doctoral thesis Started at Anglian Ruskin University, UK and ended at LNU October 2010

Ivonne Fetchenheuer, (University of Applied Sciences Berlin), “Visual field testing in patients with central field loss and low vision rehabilitation implication”, BSc optom graduate work, 2003.

Sara Rowell, “Peripheral motion detection in traffic simulation”, MSc graduate work, 2004.

Daniel Brandt, “Visiversa”, Industrial Design, BSc graduate work, 2005.

Seven optometry students, Bc optom graduate work, 2007 and 8 optometry students, Bc optom graduate work, 2008, 9 optometry students Bc optom graduate work 2009, 8 optometry students Bc optom graduate work 2010, 6 Bc optom graduate work 2011 and 7 Bc optom graduate work 2012 .

International Teaching Experience

Lecturing at German/Jordan University in Amman, Jordan on the course for Middle East in Visual Rehabilitation. 2010

Lecturing at German/Jordan University in Amman, Jordan on the course for Middle East in Visual Rehabilitation. 2009

1998 – 2001 Guest lecture in low vision at the School of Optometry, Buskerud College, Kongsberg, Norway

Several courses in Low vision Rehabilitation, 1996 -1999, at the Government Eye Clinic in Copenhagen, Hellerup, Denmark

Grants

The Barthelsson foundation 2025

The Swedish Knowledge Foundation 2011

The Princess Margareta foundation for Visual Impairment 2005 and 2008

The Wettergren Foundation, 2007

The Swedish Diabetes Foundation, 2007

The Vision Enhancement Foundation 2002

The Wettergren Foundation, 2001

The Swedish Knowledge Foundation 1999

Honors and Awards

The best scientific paper in the refractive error session at Asian ARVO, 2009.

The Eye Care Award (Ögonvårdspriset – Synskadades Riksförbund) 2008.

Fulbright Grant for post doc work in USA, 2005

The Barthelsson Award, 2005.

The Low Vision Rehabilitation Workers Association (FFS) Award, 2000.

Professional Activities

Member of the committee for half time control for PhD student Jan Johansson, Karolinska Institute (optometry) 2013

Arranging the scientific part of the LVI-days, a conference of low vision rehabilitation, in Växjö, Sweden 2011 and 2012

Translation and adaption of the New International Reading Speed Texts IReST in to the Swedish language 2010 -2011

Examiner of the PhD thesis "Peripheral Refraction: Significance, Current Limitations and A new Approach" of Cathleen Fedtke, Brien Holden Vision Institute, University of New South Wales, Sydney, Australia – May/June 2011.

Member of the committee for half time control for PhD student Christina Zetterlund, Örebro University 2011.

Member of the committee for half time control (Lic) for PhD student Anna Lindskoog Pettersson, Karolinska Institute (optometry) 2009

Chairman for the committee of doctoral thesis (PhD), "The Raribit Fovea Test – a new measure of visual function", May 2008, Karolinska Institute, Stockholm

Member of the committee for half time control (Lic) for PhD student Maria Nilsson, Karolinska Institute (optometry) 2006

Association memberships

The Association for Research in Vision and Optometry, ARVO

Swedish Optometry Association

Swedish Contact lens Association, SKLF

American Academy of Optometry, AAO (fellow since 2005)

International Association for Low Vision Research and Rehabilitation, ISLRR

European Association for Low Vision Research and Rehabilitation, ESLRR (member of the board)

Committee and referee Work

The International Conferences on Low Vision, Vision 2002, organized by International Society for Low Vision Research and Rehabilitation, ISLRR

The Journal of the American Academy of Optometry: Optometry and Vision Science

The Journal of the British College of Optometry: Ophthalmic and Physiological Optics

Organizing committee for the European Conferences on Low Vision, EuroSight 1998 and 2000

Journal of Modern Optics

Vision Research

Scandinavian Journal of Optometry and Vision Science – member of the editorial team

International collaborators

Dr. Tom Arnold, Huston, USA, 2019 – to date

CEO Jean Blanchard, Blanchard Lab Canada, 2014 – to date

Dr. Paul Rose, Hamilton, New Zealand. 2012 – to date

Associate Professor Ronald Schuchard, Emory University, Atlanta, USA. 2005 – 2010.

Professor Pablo Artal, University Murcia Spain, 2006 -2008.

Professor Anne Corn, Vanderbilt University, Nashville, USA. 2002 – 2005

Industrial cooperation

Blanchard Lab. Canada 2014 – 2021

Menicon, Japan 2013 – 2021

Low Vision International, Växjö, Sweden 2011- 2013

Retcorr AB, Helsingborg, Sweden 2010- 2011

Ophthonix Inc. San Diego, California, USA, 2006.

Multilens AB, Mönlycke, Sweden (Producer of customized optical solutions for Low Vision and other special needs), 1990 – to date.

Publications in Peer-Review Journals

Refitting a patient with pellucid marginal degeneration from a corneal rigid gas permeable lens to scleral lens. Lundanes E, Gustafsson J

Scandinavian Journal of Optometry and Visual Science Vol. 13 No. 1 (2020)

Objectively Determined Refraction Improves Peripheral Vision.

Lewis P, Baskaran K, Rosén R, Lundström L, Unsbo P, Gustafsson J.

Optom Vis Sci. 2014 Jun 12.

An international survey of toric contact lens prescribing.

Morgan PB, Efron N, Woods CA; International Contact Lens Prescribing Survey Consortium.

Eye Contact Lens. 2013 Mar;39(2):132-7.

International survey of rigid contact lens fitting.

Efron N, Morgan PB, Woods CA; International Contact Lens Prescribing Survey Consortium.
Optom Vis Sci. 2013 Feb;90(2):113-8

An international survey of daily disposable contact lens prescribing.

Efron N, Morgan PB, Woods CA; International Contact Lens Prescribing Survey Consortium.
Clin Exp Optom. 2013 Jan;96(1):58-64

Benefit of adaptive optics aberration correction at preferred retinal locus.

Baskaran K, Rosén R, Lewis P, Unsbo P, Gustafsson J.
Optom Vis Sci. 2012 Sep;89(9):1417-23..

Standardized assessment of reading performance: the New International Reading Speed Texts IReST.

Trauzettel-Klosinski S, Dietz K; IReST Study Group.
Invest Ophthalmol Vis Sci. 2012 Aug 13;53(9):5452-61.

International survey of contact lens prescribing for extended wear.

Efron N, Morgan PB, Woods CA; International Contact Lens Prescribing Survey Consortium.
Optom Vis Sci. 2012 Feb;89(2):122-9.

Resolution of static and dynamic stimuli in the peripheral visual field.

Lewis P, Rosén R, Unsbo P, Gustafsson J.
Vision Res. 2011 Aug 15;51(16):1829-34.

Influence of age on peripheral ocular aberrations.

Baskaran K, Unsbo P, Gustafsson J.
Optom Vis Sci. 2011 Sep;88(9):1088-98.

Symmetries in peripheral ocular aberrations

L. Lundström, R. Rosen, K. Baskaran B. Jaeken J. Gustafsson P. Artal. P. Unsbo
Journal of Modern Optics 2011, 1–6

Repeatability of peripheral aberrations in young emmetropes.

Baskaran K, Theagarayan B, Carius S, Gustafsson J.
Optom Vis Sci. 2010 Oct;87(10):751-9.

Population distribution of wavefront aberrations in the peripheral human eye.

Lundström L, Gustafsson J, Unsbo P.
J Opt Soc Am A Opt Image Sci Vis. 2009 Oct;26(10):2192-8.

The history and Current Status of Low Vision Services in Scandinavian Countries

Gustafsson J and Inde K
Journal of Visual Impairment & Blindness Sept 2009 Vol 103 nr 9

The accommodative pupil responses of children and young adults at low and intermediate levels of ambient illumination.

Gislén A, Gustafsson J, Kröger RH.
Vision Res. 2008 Mar;48(8):989-93

Vision evaluation of eccentric refractive correction.

Lundström L, Gustafsson J, Unsbo P.

Optom Vis Sci. 2007 Nov;84(11):1046-52.

Effect of optical correction and remaining aberrations on peripheral resolution acuity in the human eye.
Lundström L, Manzanera S, Prieto PM, Ayala DB, Gorceix N, Gustafsson J, Unsbo P, Artal P.
Opt Express. 2007 Oct 1;15(20):12654-61.

Off-axis wave front measurements for optical correction in eccentric viewing.
Lundström L, Unsbo P, Gustafsson J.
J Biomed Opt. 2005 May-Jun;10(3):034002.

Assessment of objective and subjective eccentric refraction.
Lundström L, Gustafsson J, Svensson I, Unsbo P.
Optom Vis Sci. 2005 Apr;82(4):298-306.

The MoviText method: Efficient pre-optical reading training in persons with central visual field loss,
Gustafsson, J. Inde, K.
Technology and Disability 6, (2004) 211–221, ISO Press.

Eccentric correction for off-axis vision in central visual field loss.
Gustafsson J, Unsbo P.
Optom Vis Sci. 2003 Jul;80(7):535-41.

The first successful eccentric correction
Gustafsson, J.
Visual Impairment Research (2002). 2001. Vol.3, No. 3, pp. 147-155.

Peripheral Astigmatism in Emmetropic Eyes,
Gustafsson, J., Terenius E., Buchheister, J., Unsbo, P.
Ophthalm. Physiol. Opt 2001. Vol 21, No. 5, pp 393 - 400.

Contributed Presentations at Professional Meetings (published in Peer-review journals)

Eilin Lundanes, Jörgen Gustafsson (2021)
When a patient loves his scleral lens too much, Kongsberg Vision Meeting, Norway

Baskar Theagarayan, Johanna Thorell, Jorgen Gustafsson (2011) **Prevalence of Binocular Accommodative Infacility in Swedish Adults**, ARVO poster, Fort Lauderdale, Florida, USA.

Karthikeyan Baskaran, Peter R. Lewis, Robert Rosen, Peter Unsbo, Jorgen Gustafsson (2011) **Effects of Optical Defocus on Resolution Acuity in Preferred Retinal Locus**, ARVO poster, Fort Lauderdale, Florida, USA.

Gustafsson J., Rosen R., Brodin M., Lundström L., Unsbo P., (2011) **Improved Refraction of Patients with Central Visual Field Loss by the Use of Low Contrast Optotypes**, ARVO poster, Fort Lauderdale, Florida, USA.

Lewis, PR. Rosen, R. Carius, S. Gustafsson, J.(2010) **Naso-temporal Asymmetry of Peripheral Static and Dynamic Visual Acuity**, EOS Topical Meeting: 5th European Meeting on Visual and Physiological Optics (EMVPO), Stockholm

Baskaran, K. Theagarayan, B. Carius, S. Gustafsson, J. (2010) **Influence of age on peripheral aberration**, EOS Topical Meeting: 5th European Meeting on Visual and Physiological Optics (EMVPO), Stockholm

Lewis, PR. Rosen, R. Gustafsson, J. Carius, S. Unsbo, P. (2010) **Dynamic Visual Acuity in the Peripheral Visual Field Using Gabor Patches**, ARVO poster, Fort Lauderdale, Florida, USA.

Baskaran, K. Theagarayan, B. Carius, S. Gustafsson, J. (2010) **Ocular Aberrations in the Peripheral Visual Field With a Commercial Open-View Aberrometer**, ARVO poster, Fort Lauderdale, Florida, USA.

Johansson, AK, Kalm, M. Gustafsson, J. (2009) **Evaluation of Low visual Acuity with Berkeley Rudimentary Vision Test**, Poster American Academy of Optometry, Orlando Florida, USA

Gustafsson J. (2009) **Eccentric Correction of Low Order Aberrations in Absolute Central Visual Field Loss**, Asian ARVO paper PAP22.08, Hyderabad, India
Price as best scientific paper in the refractive error session

Gustafsson, J. Inde, K. Theagaryan, B. (2009) **Low Vision Services System in Scandinavia**. Asian ARVO poster POS07.13, Hyderabad, India

Gustafsson, J. and Inde, K. (2008). **Scandinavian low vision services - Similarities and differences**. Vision 2008 - The 9th International Conference on Low Vision, Montreal, Canada

Inde, K. and Gustafsson, J. (2008). **SEEnior – a New Scandinavian Vision Enabling Project for AMD Participants**. Vision 2008 - The 9th International Conference on Low Vision, Montreal, Canada

Lundstrom, L., Gorceix, N., Manzanera, S., Prieto, P.M., Ayala, D.B., Gustafsson, J., Unsbo, P., Artal P. (2007) **Effect of Aberration Correction on Visual Acuity in the Periphery**, ARVO poster 4003, Fort Lauderdale, Florida, USA.

Gustafsson, J., Lundström, L., Unsbo, P. (2007). **Visual Evaluation of Resolution Acuity With Eccentric Refractive Correction**, ARVO poster 3552, Fort Lauderdale, Florida, USA.

Gustafsson, J., Lundström, L., Unsbo, P., (2005) **Eccentric Correction improves the visual function in Subjects with Large Central Visual Field Loss**, the International Low Vision Conference "Vision 2005", London, UK

Inde, K, Gustafsson, J. (2005) **MoviText – an efficient pre-optical training for eccentric readers**, the International Low Vision Conference "Vision 2005", London, UK

Inde, K, Grube, M. Gustafsson, J. Hemmingsen, L. (2005) **Visual desire and efficiency through Peakabooks and PC Games for low vision children**, the International Low Vision Conference "Vision 2005", London, UK

Grube, M. Hemmingsen, L. Inde, K., Gustafsson, J. (2005) **The See More Project**, the International Low Vision Conference "Vision 2005", London, UK

Unsbo, P., Lundström, L., Gustafsson, J., (2004) **Finding a spectacle correction in Keratoconus using a Hartmann-Shack sensor: a case study**, ARVO Poster No 2849, Ft Lauderdale, USA.

Lundström, L., Unsbo, P., Gustafsson, J., (2004) **Assessment of objective and subjective eccentric refraction**, ARVO Poster No 2757, Ft Lauderdale, USA.

Lundström, L., Unsbo, P., Gustafsson, J., (2004) **Measuring peripheral wavefront aberrations in subjects with large central visual field loss**, Code No 5314-40, SPIE Photonics West 24-29 January, San Jose, USA.

Gustafsson, J. Unsbo, P. (2002). **Eccentric Correction in Low Vision Subjects with Central Visual Field Loss**, the International Low Vision Conference "Vision 2002", Gothenburg, Sweden.

Gustafsson, J., Unsbo, P. (2002). **Eccentric Correction in Low Vision Subjects with Central Visual Field Loss**, ARVO poster, Fort Lauderdale, Florida, USA.

Unsbo, P. Franzén, L. K. and Gustafsson, J. (2002) **"Increased Dynamic Range of a Hartmann Shack Sensor by B-Spline Extrapolation: Measurement of Large Aberrations in the Human Eye"**, ARVO poster, Fort Lauderdale, Florida, USA.

Gustafsson, J. Unsbo, P. (2001). **Correcting peripheral refractive errors in low vision subjects with central scotomas**, ARVO poster 2001, Fort Lauderdale, Florida, USA.

Gustafsson, J. (2000). **"Widesight" - A Project Aimed At Improving Peripheral Vision**, the Fourth European Conference on Low Vision "Eurosight 2000 ". Eindhoven, Holland

Unsbo, P., Biedermann, K., Buchheister, J., Gustafsson, J., Terenius, E. (2000). **Oblique Astigmatism and Curvature of Field in the Human Eye**, Northern Optics 2000, Uppsala, Sweden, Abstract Publication, ISBN 91-7170-589-9. (Poster)

Gustafsson, J., Jönsson, B., Möller, B., Pettersson, S. (2000). **Raytracing in the Compensation of the Peripheral Optics of the Eye**, Northern Optics 2000, Uppsala, Sweden, Abstract Publication, ISBN 91-7170-589-9. (Poster)

Contributed Presentations at Professional Meetings (not published)

Gustafsson, J. (2006) **Visual Evaluation of Eccentric Correction in Subjects with Large Central Vision Field Loss** "Second European Vision Event", Oberhausen, Germany

Gustafsson, J., Lundström, Unsbo, P. (2005) **Eccentric Correction in Subjects with Central Visual Field Loss**, the International Symposium on Low Vision Rehabilitation and Visual Ability, Rome, Italy

Gustafsson, J. (2003) **"Eccentric correction and Low Vision Enabling"** on Convegno Internazionale di Ipovisione, Caltagirone, Sicily, Italy

Gustafsson, J. (2002) **"Eccentric correction in CFL subjects"** on Corso Internazionale Sulla Riabilitazione Visiva Del Soggetto Ipovedente, Padova, Ital

Invited Presentations (National)

2023	Synologen Academy
2021	Synologen Academy
2021	NKCDB-Nationellt kunskapscenter för dövblind, Lund
2018	NK-Syn, Nordic low vision rehabilitation congress, Stockholm
2017	SKLF – meeting, Göteborg
2012	ML-meeting, Göteborg
2010	ML-meeting, Göteborg
2009	Klarsynt workshop, Örebro
2008	Syncentralsoptikerna, SCOP, Kalmar
2008	SRF: Göteborg, Nybro och Kalmar
2007	Föreningen för synrehabilitering, FFS, Kalmar; Ögats Dag Halmstad
2006	Ögats Dag, Kalmar
2005	Ögats Dag, Halmstad
2004	Syncentralsoptikerna, SCOP, Lund
2003	Ophthalmology department in Gothenburg and Syncentralsoptikerna, SCOP, Mölnlycke
2002	Optometridagarna, Stockholm and the Eye clinic in Örebro and Jönköping
2001	Optometridagarna and Syncentralsoptikerna, SCOP, Stockholm
2000	Föreningen för synrehabilitering, FFS, Stockholm
1999	Syncentralsoptikerna, SCOP, Stockholm
1998	Optometridagarna, Stockholm
1997	Föreningen för synrehabilitering, FFS, Stockholm
1996	Föreningen för synrehabilitering, FFS, Stockholm
1995	Optikdagarna, Stockholm
1994	Optikdagen, Sollentuna

Invited Presentations (International)

Gustafsson, J (2020) **Optical devices for reading, intermediate distance and distance: prescription according to the needs of the visually impaired patient**, Padova, Italy

Gustafsson, J (2020) **Usual cases in Low Vision**, Webinar for Polish Optometric Association

Gustafsson, J (2019) **Aberrations and solutions in ophthalmic lenses**, Optometria 2109, Cracow, Poland

Arnold, T Gustafsson, J (2019) **Rigid contact lenses for keratoconic patients**, Optometria 2109, Cracow, Poland

Gustafsson, J (2019) **Anisometropia effects and solutions in ophthalmic lenses**, Optometria 2109, Cracow, Poland

Gustafsson, J (2017) **Tools to provide the best possible image quality to eyes**, PRISMA congress Firenze, Italy

Gustafsson, J (2017) **How to optimize vision in keratoconus**, PRISMA congress Firenze, Italy

Gustafsson, J. (2011) **Optimal use of peripheral vision**, KL Vision 10th International Conference on Low-Vision, Kuala Lumpur, Malaysia

Gustafsson, J. (2010) **Eccentric Correction in Absolute Central Visual Field Loss**, II International Symposium on Low Vision Rehabilitation and Visual Ability, Rome, Italy

Gustafsson J. (2009) **Optometric Low Vision Rehabilitation**, Jordan University of Science and Technology JUST, Ibid, Jordan

Gustafsson J. Inde K. (2009) **Scandinavian Low Vision Service**, German/Jordan University, Amman, Jordan

Gustafsson J. Inde K. (2009) **Low Vision Service**, Lithuanian Blind Union, Vilnius, Lithuania

Gustafsson J. (2008) **Vision Enabling**, Wergröbende Sehilfen conference, Vienna, Austria

Gustafsson J, Inde K. (2008) **Low Vision training – SEE MORE and SEEnior**, Wergröbende Sehilfen conference, Vienna, Austria

Gustafsson J, (2007) **Vision Enabling laboratory**, Provista conference, Arendal Norway

Gustafsson J. (2006) **Visual evaluation of eccentric correction in subjects with large central visual field loss**, Second European Vision Event, Oberhausen, Germany

Other publications (non peer-review)

I have published over 20 articles in the Swedish Optometry magazine, mostly on the subject of low vision in the form of conference reports, presentations of small projects and other ophthalmology or optometry reports. In the Norwegian and Danish Optometry magazine I have published about 10 articles, mostly on topics related to low vision rehabilitation.

Communications with the general public (media and public awareness)

- Swedish Television News program

- Ny Teknik (Swedish)
- Dagens Medicin (Swedish)
- Nordic Vision (Swedish)
- Optik (Swedish)
- Optikeren (Norwegian)
- Optikern (Danish)
- Daily Newspaper: Barrometern (Swedish)
- Daily Newspaper: Östra Småland (Swedish)