

DR. DORA FERNÁNDEZ-AGRAFOJO

MD, PhD

Specialist in Paediatric and Adult Strabismus · Binocular Vision · Neuro-ophthalmology

INSTITUTO INOF — Centre for Ocular Research and Surgery

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I. Professional profile

Graduate in Medicine and Surgery from the University of Santiago de Compostela and specialist in Ophthalmology at the Hospital Clínic de Barcelona. The turning point of her career was her **Doctoral Thesis «Cirugía del estrabismo divergente»**, defended in 1993 before the Central University of Barcelona and awarded *Sobresaliente cum laude*. From then on, Dr. Fernández-Agrafojo has devoted her entire clinical, surgical and scientific career to three closely interrelated fields that form the core of her practice:

- **Paediatric and adult strabismus.** Clinical diagnosis and treatment of strabismus at all ages —from congenital strabismus and alphabet syndromes in childhood to adult strabismus, including post-traumatic, post-surgical and late-onset diplopia—, as well as combined treatment through optical correction, vision therapy, botulinum toxin and extraocular muscle surgery. A distinctive line of work: **refractive surgery (LASIK / ICL intraocular lens) and cataract surgery as a therapeutic tool in patients with strabismus**, working on Binocular Vision with her own case series, published in international journals and conferences.
- **Binocular vision.** Functional study of binocularity and its dysfunctions —amblyopia, accommodative spasm, convergence insufficiency and excess, anisometropia, anomalies of fusion and stereopsis—, with an approach combining clinical examination, **Gazelab video-oculography** (in which she is a national reference), synoptophore and the Hess-Lancaster test. Own **vision therapy** programme for children and adults, with results published in the scientific literature.
- **Study and treatment of disorders of ocular motility and binocular vision of neurological origin:** palsies and pareses of the cranial nerves (III, IV and VI), childhood myasthenia gravis, congenital and acquired nystagmus, sudden- or progressive-onset diplopia in adults, and oculomotor disorders associated with neurological disease. Use of Gazelab video-oculography as a precision diagnostic tool in such cases.

On these three axes she has built **her own clinical case series** that translates into a sustained record of publications and conference presentations —national (Sociedad Española de Estrabología y Oftalmología Pediátrica [SEEOP], Societat Catalana d'Oftalmologia [SCOFT], Sociedad Española de Cirugía Ocular Implanto-Refractiva [SECOIR] and Sociedad Española de Oftalmología [SEO]), European (European Strabismological Association [ESA], European Pediatric Ophthalmology Society [EPOS], European Society of Cataract and Refractive Surgeons [ESCRS] and European Society of Ophthalmology [SOE]) and international (International

Strabismological Association [ISA], Consejo Latinoamericano de Estrabismo [CLADE], World Society of Paediatric Ophthalmology and Strabismus [WSPOS] and World Ophthalmology Congress)— sustained over more than three decades and reflected in Section V of this curriculum.

She directs the **Instituto INOF** (Institute for Ocular Research and Surgery) at the Centro Médico Teknon in Barcelona since 2003, where she coordinates a multidisciplinary team of ophthalmologists and optometrists. She is **the Spanish coordinator of the Ibero-American Amblyopia Screening Campaign (CLADE)**, for which INOF was the international host for five consecutive years.

II. Areas of specialisation

Since defending her doctoral thesis in 1993, Dr. Fernández-Agrafojo's clinical, surgical and research activity has focused on three closely related areas, addressed in an integrated way at the Instituto INOF:

1. Paediatric and adult strabismus

More than three decades of uninterrupted activity centred on the diagnosis and treatment of strabismus at all ages. She treats:

- **Childhood strabismus:** congenital and accommodative esotropias, intermittent and constant exotropias, alphabet syndromes (A and V), oblique muscle dysfunctions and restrictive syndromes.
- **Adult strabismus:** recurrence of childhood strabismus, decompensations, paralytic strabismus, post-traumatic and post-surgical diplopia, late-onset diplopia and strabismus associated with thyroid disease.
- **Strabismus surgery.** Extraocular muscle surgery —including reoperation and the *Faden operation*—, indication of botulinum toxin, optical and prismatic prescription, and the design of individualised programmes combining all these tools.
- **Binocular Vision Sensory Treatment; distinctive line of work: the refractive surgery (LASIK / ICL) and cataract surgery as a treatment for adult strabismus** in properly selected patients —especially in partially accommodative esotropias and in anisometropias with diplopia—. Her own case series of more than 100 cases presented at European and international conferences (European Society of Cataract and Refractive Surgeons [ESCRS], European and International Strabismological Association [ESA-ISA] and European Society of Ophthalmology [SOE]).

2. Binocular vision

Functional study of binocularity and rehabilitation of its dysfunctions, with an integrated clinical-instrumental approach:

- **Conditions addressed:** amblyopia (including amblyopia in high refractive errors, isometropia and anisometropia), accommodative spasm in children and adults, convergence insufficiency and excess, anomalies of fusion and stereopsis, suppression and anomalous retinal correspondence.
- **Instrumental examination.** Dr. Fernández-Agrafojo is an international reference in the clinical use of the **Gazelab™ video-oculograph**, on which she has published the main comparative studies against the synoptophore and the Hess-Lancaster test. Her group also combines retinoscopy under cycloplegia, the Mohindra test in pre-verbal children and sensory examination.

- **Vision therapy.** Own programme at INOF, with published case series, aimed at children and adults with binocularity dysfunctions, accommodative spasm and post-surgical strabismus rehabilitation.

3. Other conditions related to the study and treatment of disorders of ocular motility and binocular vision of neurological origin, with an approach coordinated with neurology and neuropaediatrics when the case requires it:

- **Oculomotor palsies and pareses:** involvement of the cranial nerves III, IV and VI, post-traumatic superior oblique paresis, acquired adult palsies, internuclear ophthalmoplegia and restrictive syndromes.
- **Diplopia:** differential diagnosis and treatment of sudden- or progressive-onset diplopia in adults, including post-operative diplopia and that associated with systemic disease (multicentre study presented at the ESA Helsinki 2019 and Toulouse 2024).
- **Nystagmus:** examination and treatment of congenital and acquired nystagmus in children and adults; surgical indication of nystagmus —when and how to operate— as an own line of publication.
- **Other neuro-ophthalmological conditions:** childhood myasthenia gravis (with a publication in the *Revista Argentina de Oftalmología Infantil*), thyroid ophthalmopathy, oculomotor disorders associated with multiple sclerosis and cerebrovascular disease.
- **Instrumental support:** Gazelab video-oculography, in addition to its application in strabismus, is used at INOF as a precision tool for the objective examination of ocular motility and pupillary dynamics in patients with neurological disease.

III. Academic merits

- 1983** **Graduate in Medicine and Surgery** from the University of Santiago de Compostela.
- 1983** Undergraduate dissertation: «*Evolución analítica durante el tratamiento de la tuberculosis pulmonar*». University of Santiago de Compostela (20 October 1983).
- 1983-84** Doctoral monographic courses, University of Santiago de Compostela:
- Liver pathology (Notable)
 - Malabsorption and intestinal pathology (Sobresaliente)
 - Pathology of the mammary gland (Notable)
 - Study of lateral deviations of the spine (Sobresaliente)
- 1993** **Doctoral thesis:** «*Cirugía del estrabismo divergente*». Awarded *Sobresaliente cum laude* by the Central University of Barcelona (February 1993). *A milestone marking the start of her exclusive specialisation in paediatric and adult strabismus, binocular vision and neuro-ophthalmology, fields to which she has devoted all her clinical, surgical and research activity ever since.*

IV. Clinical merits

- 1981-1983** Intern at the Internal Medicine Department of the Santiago de Compostela General Hospital.
- 1983-1987** Resident physician (MIR) at the Hospital Clínic de Barcelona.

- 1987-1996** Fellow and staff physician at the Institut Dexeus (Barcelona).
- 1993-1999** Collaborating physician at the Barcelona Children's Hospital.
- 1996-2007** Ophthalmologist on the medical staff of the Clínica Quirón.
- since 1998** Ophthalmologist authorised by the Directorate-General of Civil Aviation (Ministry of Public Works) to issue medical certificates for flight licences (Class I, II and III). ICAO ophthalmologist in accordance with JAR regulations.
- since 2003** Ophthalmologist on the medical staff of the Centro Médico Teknon (Barcelona).
- Since 2003 — Present** **Director of the Instituto INOF** (Institute for Ocular Research and Surgery), Centro Médico Teknon, Barcelona.

Recognitions and coordination

Spanish coordinator of the **International Amblyopia Screening Campaign** organised by the Latin American Strabismus Council (CLADE). INOF was the international host of the campaign for five consecutive years, from 2020 to 2025.

Recognition for the coordination in Spain of the **2024 International Amblyopia Campaign (CLADE)**.

V. Membership of scientific societies

Membership of the main scientific societies in Dr. Fernández-Agrafojo's areas of specialisation —strabismus, binocular vision and paediatric ophthalmology— at Spanish, European, international and Ibero-American level:

- **SEEOP — Sociedad Española de Estrabología y Oftalmología Pediátrica.** Full member since January 1993.
- **ESA — European Strabismological Association.** Member.
- **ISA — International Strabismological Association.** Member.
- **CLADE — Consejo Latinoamericano de Estrabismo.** Member; Spanish coordinator of the Ibero-American Amblyopia Screening Campaign for five consecutive years.
- **LEOP / REOP — Revista de Estrabismos y Oftalmología Pediátrica.** Member of the Editorial Board.
- Societat Catalana d'Oftalmologia (SCOFT).
- Fundació Acadèmia de Ciències Mèdiques de Catalunya i Balears.
- Member of the **Medical Board of the Centro Médico Teknon** since October 2014.

VI. Publications, presentations and conference participation

Chronological selection of Dr. Fernández-Agrafojo's scientific activity. For a comprehensive list of contributions prior to 2010, see the extended version of the curriculum.

Representative contributions up to 2010

- 1988** Paper «Resultados en el tratamiento de la fijación excéntrica con prisma inverso». 17th European Strabismus Concilium.
- 1988** Paper «Papiloma conjuntival». 64th Congress of the Sociedad Española de Oftalmología, Palma de Mallorca.
- 1991** Video presentation «Cirugía del estrabismo» at the Ophthalmology Video Festival, Societat Catalana d'Oftalmologia. Lleida.
- 1991** Video presentation «Reintervención de Fadenoperación» at the 67th Congress of the Sociedad Española de Oftalmología, Santander.
- 1993-1994** Publications «Resultados clínicos y quirúrgicos de la exotropía constante». Acta Estrabológica.
- 1996** Publication «Resultados de los síndromes alfabéticos en la cirugía de los oblicuos». Acta Estrabológica, Vol. XXV.
- 1999-2009** Direction and teaching of Courses I to IV on Paediatric Ophthalmology (Clínica Quirón and Centro Médico Teknon, Barcelona).
- 2003** Publication «Diplopia postcirugía de cataratas en pacientes miopes». Acta Estrabológica, Vol. XXXII.
- 2004** Publication «Efectividad en el mantenimiento de la insuficiencia de convergencia». Acta Estrabológica, Vol. XXXIII.
- 2004** Paper «Miastenia grave infantil: a propósito de un caso». 29th European Strabismological Association Meeting, Izmir (Turkey).
- 2005** Paper «Tratamiento ortóptico ante una paresia postraumática de oblicuo superior». 30th European Strabismological Association Meeting, Killarney (Ireland).
- 2006** Direction and presentation at the 19th International Congress of Optometry, Contact Lens and Ophthalmic Optics, IFEMA Madrid (vision therapy; visual assessment of schoolchildren in the Maresme).
- 2006** Paper «Complicaciones y riesgos bajo el tratamiento de ortoqueratología». 1st International Orthokeratology Congress, Barcelona.
- 2007** 31st Meeting of the European Strabismological Association, Mykonos (Greece).
- 2008** Paper «Retinopelis y Hess-Lancaster». 17th Latin American Strabismus Congress (CLADE), Buenos Aires.
- 2009** Paper «Retinofilms». 33rd European Strabismological Association Meeting, Belgrade. 1st International Congress of Paediatric Ophthalmology and Strabismus, Barcelona.
- 2009** Article in El Periódico de Catalunya: «Mirar en exceso el ordenador causa miopía» (17/02/2009).

2010-2019 period

- 2011** Direction of the longitudinal clinical trial on the efficacy of the AMIOPIK hydrophilic lens in myopia control, Centro Médico Teknon.
- 2012** Publicación «Refractive Surgery and Strabismus in adult patients». Supplement Strabismus (Canadian Orthoptic Society).
- 2012** Paper «Refractive Surgery and Strabismus» at the congress of the European Pediatric Ophthalmology Society (EPOS), Uppsala (Sweden).
- 2012** Papers «Refractive Surgery and Strabismus: our experience» at the 30th European Society of Cataract & Refractive Surgeons and the 2nd World Congress of Pediatric Ophthalmology and Strabismus, Milan (Italy).
- 2012** Professional interview published in the book *La excelencia de la medicina en España* (César Liesa & Ana Arcalís, Last Word Publishers).
- 2013** Clinical and surgical strabismus sessions at the department of Dr. Audren François, Fondation Ophthalmologique Adolphe de Rothschild, Paris.
- 2013** Presentation «Paresia traumática del oblicuo superior» and «Un método diferente para hacer retinoscopia en niños pre-verbales». 33rd Course of the Sociedad Española de Estrabología, Palma de Mallorca.
- 2013** Paper «Refractive Surgery and Strabismus». Congress of the European Society of Ophthalmology, Copenhagen.
- 2014** Oral paper «Estudio comparativo entre sinoptóforo y cover test con prisma en visión lejana». 22nd Congress of the Sociedad Española de Estrabología, Cuenca.
- 2014** Paper «Protocolo estrabológico pre-cirugía refractiva». 32nd Congress of the European Society of Cataract and Refractive Surgeons (ESCRS), London.
- 2014** Direction, coordination and teaching of the postgraduate *online* course of the Polytechnic University of Catalonia (UPC): «Detección de problemas de aprendizaje en la infancia».
- 2014** Oral paper «Iritis y trabeculitis herpética agudas en paciente joven sin enfermedad ocular previa». 90th Congress of the Sociedad Española de Oftalmología, Bilbao.
- 2014** Paper «Comparative study between synoptophore and cover test with prisms in far vision». Congress of the International Strabismological Association, Kyoto (Japan).
- 2015** Participation in the 3rd World Congress of Pediatric Ophthalmology and Strabismus with the paper «The effect of oblique muscle dysfunction on alphabetic syndrome». Barcelona.
- 2015** Member of the examining board for the doctoral thesis «Diseño, estudio y validación de una lente de contacto de gradiente de potencia para controlar la miopía», defended by Mr. Jaume Pauné Fabrè. Faculty of Optics and Optometry of Terrassa (UPC).
- 2016** Oral paper «Estudio comparativo de la medida del ángulo del estrabismo mediante sinoptóforo y videoculógrafo Gazelab». 24th Congress of the Sociedad Española de Estrabología, Córdoba.
- 2016** Paper «Comparative Synoptophore and Gazelab». 13th International Orthoptic Congress, Rotterdam.

- 2016** Paper «Comparative study between Synoptophore and videoculograph Gazelab». 38th Meeting of the European Strabismological Association, Budapest.
- 2016** Publications «Diplopia and Torticollis in adult Strabismus» and «Comparative study between synoptophore and cover test with prisms at far vision» in the digital journal *JOJ Ophthalmology*.
- 2017** Oral paper «LASIK or IOL refractive surgery in patients with strabismus». European Society of Ophthalmology Congress (SOE), Barcelona.
- 2017** Co-author of the study «Sarcoma de Kaposi conjuntival gigante por el VIH: remisión total tras terapia antirretroviral y quimioterapia sistémica». *Archivos de la Sociedad Española de Oftalmología* (digital version, June 2017).
- 2017** Round table «Ambliopía y graduaciones altas» and three further papers at the 21st Latin American Strabismus Congress (CLADE), Buenos Aires.
- 2018** Paper «Ambliopía en graduaciones altas». 36th World Ophthalmology Congress, Barcelona.
- 2018** Oral paper «Cambios maculares en niños con ambliopía refractiva». 26th SEEOP Congress, Tarragona.
- 2019** Publication «Eficacia de la cirugía de estrabismo en desviación convergente y diplopía. A propósito de un caso». *Annals d'Oftalmologia*, Vol. 27, No. 1.
- 2019** Paper «Comparative study of ocular motility between Gazelab video-oculography and the Hess-Lancaster test». 40th European Strabismological Association Meeting, Helsinki.
- 2019** Four oral papers at the Mexican Strabismus Congress: «Diplopía de aparición tardía en paciente adulto», «Ambliopía en graduaciones altas», «Tratamiento del estrabismo con cirugía refractiva», «Estudio comparativo de la videoculografía Gazelab con el sinoptóforo y con el test Hess-Lancaster».
- 2019** Publication «Diplopia Improvement after Refractive Surgery», forum of the International Strabismological Association (ISA).
- 2020-2023 period**
- 2020** Four papers and round table «Ambliopía. Qué ha cambiado en la ambliopía». 22nd CLADE Congress, Cartagena de Indias.
- 2020** Paper «Refractive surgery in anisometric patient with diplopia». 37th World Ophthalmology Congress (virtual).
- 2020** Publication «Diplopía de larga evolución en paciente añosa». *REOP*, Vol. VII, No. 2, Case 35.
- 2021** Publication «Paresia del IV par del ojo derecho. A propósito de un caso». *REOP*, Vol. VIII, No. 1, Case 41.
- 2021** Two papers at the European and International Strabismological Association (ESA-ISA) Virtual Conference: «Treatment of diplopia in the adult patient» and «The use of videoculography in a strabismus center».
- 2021** Paper «Exploración y tratamiento del nistagmus en la infancia: a propósito de 2 casos». 28th SEEOP Congress (virtual).
- 2021** Paper «Diplopías en el adulto». 20th Congress of the Mexican Strabismus Centre.

- 2021** Publication «Miastenia Gravis en la infancia. Reporte de casos clínicos». *Revista Argentina de Oftalmología Infantil (RAOI)*, No. 3, September.
- 2021** Publication «Tratamiento con cirugía refractiva en un paciente con anisometropía y diplopía. A propósito de un caso». *Annals d'Oftalmologia*, Vol. 29, No. 3.
- 2021** Publication «Correlación y concordancia entre la técnica de retinoscopia de Mohindra y la retinoscopia con ciclopléjico en la infancia». *Archivos de la Sociedad Española de Oftalmología* (January 2021).
- 2022** Direction and teaching of the 10th Course on Paediatric Ophthalmology, Centro Médico Teknon (14 June 2022).
- 2022** Clinical case publication. *REOP*, Vol. IX, No. 2, Case 50.
- 2022** Four papers at the 15th ISA Meeting, Cancún (Mexico): «Evaluation of the therapeutic options in the adult diplopia», «Risk factors in the strabismic patients undergoing refractive surgery», «How to treat accommodative spasms in adults and children» and «Recuperación de la ambliopía en adultos».
- 2023** Paper «Comparación entre Gazelab y la exploración clínica de la motilidad ocular en pacientes con alteración de la visión binocular». 30th SEEOP Congress and 23rd CLADE Congress.
- 2023** Paper «Treatment of adult diplopia: A multicenter-based study». 42nd Meeting of the European Strabismological Association (ESA).
- 2023** Paper «Gazelab y Lancaster en la binocularidad». 1st Binocularity Summit, Sociedad Mexicana de Oftalmología.

Recent activity (2024-2026)

The following entries collect and update Dr. Fernández-Agrafojo's most recent scientific activity, including publications, conferences and recognitions disseminated through www.inof.es and the Instituto INOF.

- Mar 2024** Publication of the article «*Síndrome de Brown antes y después del tratamiento quirúrgico: caso clínico*». *Gaceta de Optometría y Óptica Oftálmica*, No. 600 (special issue "600 publications"). Co-authors: H. Morales and T. Pena.
- Mar 2024** Publication «Espasmo acomodativo unilateral». *REOP*, Vol. XI, No. 1, Case 63.
- Apr 2024** Oral paper «Tratamiento del espasmo acomodativo en la edad adulta y en la infancia». 31st SEEOP Congress, Seville (25-26 April).
- Jun 2024** Two papers at the ISA-ESA Congress, Toulouse (12-15 June): «**Treatment of accommodative spasm in adults and children**» and «**Refractive or cataract surgery in patients with strabismus. When and why? A study of 101 cases**».
- Sep 2024** Sixth consecutive year as the Spanish host of the Ibero-American Amblyopia Screening Campaign (CLADE), edition dedicated to Dr. Guillermo Vélez. Free check-ups for children and young people aged 3 to 18 until 30 September.
- Sep 2024** Paper «Estudios oculográficos. Trabajos en la discapacidad visual». Mexican Council of Ophthalmology (21 September).

- Sep 2024** Publication «¿Cuándo operar un nistagmus?». *Revista Argentina de Oftalmología Infantil (RAOI)*, Vol. V, No. 3.
- Oct 2024** Recognition of Dr. Joan Giralt, ophthalmologist of the INOF team, with the Albert Award for the best video presentation at the 24th Euretina International Congress 2024 (27-gauge pars plana vitrectomy to correct intraocular lens dislocation).
- Nov 2024** Presentation of the paper «**Cirugía refractiva o de cataratas en pacientes con estrabismo: ¿cuándo y por qué? Un estudio de 101 casos**» at the 55th Congress of the Sociedad Catalana de Oftalmología, Barcelona. Co-author: H. Morales Ruiz (INOF). The study analyses the improvement in deviation, sensory status and visual function in 101 patients over 18 years of age, with particularly notable results in partially accommodative esotropias.
- 2024** Results of the 2024 Amblyopia Screening Campaign: over the six years of the campaign, INOF has helped to examine 3,807 children, detecting 1,059 cases of amblyopia (prevalence of 27.82%).
- Feb 2025** Two papers at the 24th CLADE Congress, Antigua Guatemala (11-14 February): «**Cirugía refractiva en paciente anisométrico con diplopía**» and «**Cirugía refractiva infantil**».
- Jan-Mar 2025** Publication of the article «**Tratamiento del espasmo acomodativo**». *Annals d'Oftalmología*, Vol. 33, No. 1, pp. 9-12. Co-authors: T. Pena and H. Morales Ruiz (INOF). A study on sustained ciliary muscle dysfunction, presenting three clinical cases (two children and one adult) treated at the Instituto INOF.
- Mar 2026** Clinical case publication in the *Revista de Estrabismo y Oftalmología Pediátrica (REOP)* of the Instituto Oftalmológico Prieto-Díaz (La Plata, Argentina).

Upcoming presentations (June-July 2026)

- Jun 2026** Presentation of **two poster papers** at the **XXXIII Congreso de la Sociedad Española de Estrabología y Oftalmología Pediátrica (SEEOP)**, to be held in Barcelona from 10 to 12 June 2026 at the L'Illa Diagonal Auditorium. It is the leading annual event in Spain in strabismus and paediatric ophthalmology.
- Jul 2026** Participation as **Discussant and presentation of a paper on Strabismus**, at the **II World Congress on Myopia Control** to be held on 24 and 25 July 2026 at the Palacio Garibaldi (Praça Garibaldi, 12 — São Francisco, Curitiba, PR, Brazil). Invitation issued by the Congress Organising Committee.

Ongoing clinical dissemination and research lines

Dr. Fernández-Agrafojo and the INOF team maintain ongoing clinical dissemination activity through the institutional blog, addressing, among other topics: **vision therapy** in paediatric patients with accommodative spasm and binocular vision dysfunction; **when to operate on nystagmus in children**; **digital eye strain** and

prevention of computer vision syndrome; **screen use in children** and recommendations of the Spanish Society of Paediatric Ophthalmology; and **early detection of amblyopia** at school age.

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