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Summary

Surgeon–scientist and applied mathematician leading high-volume anterior segment and refractive surgery with a sustained record in IOL optics, IOL power calculation (co-conceptor, PEARL–DGS), AI for anterior segment imaging, and keratoconus analytics. Developer/inventor on multiple patents including the first diffractive **trifocal IOL (FineVision; U.S. FDA approval, September 2025)**; repeated honoree on *The Ophthalmologist Power List* (2018, 2020, 2022–2025); recipient of the **ASCRS Kelman Innovators Award (2025)**. Editorial Board member, *Journal of Refractive Surgery*. >240 PubMed-indexed publications; five books.

Positions

- **Head, Anterior & Refractive Surgery**, Fondation Rothschild, Paris (since 2008).
- **Associate Professor (Ophthalmology)**, Abulcassis International University of Health Sciences, Rabat, Morocco.
- *Prior:* Assistant Professor, Bichat–Claude Bernard Hospital (Univ. Paris VII, 1999–2008); Ophthalmology Residency (1993–1996).

Education & Credentials

- MD (1991); Ophthalmology Diploma (1996); *Habilitation à Diriger les Recherches* (2005).
- PhD in Applied Mathematics, Université Paris-Saclay (2017).

Licensure & Certifications

- Diplomate in Medicine (MD), 1991.
- Diplomate in Ophthalmology, 1996.
- *Habilitation à Diriger les Recherches* (HDR, Director of Research), 2005.
- PhD in Applied Mathematics (Université Paris-Saclay), 2017.

Clinical Activity (personal volumes)

Program leadership: head of a high-volume, outcomes-driven, hospital-based anterior segment and refractive surgery service.

>1,300 corneal laser refractive procedures/year; >400 anterior segment/cataract surgeries/year.

Honors, Awards & Distinctions (selected)

- ASCRS **Kelman Innovators Award** (2025); AECOS **Joseph Colin Prize** (2025).
- AAO **Senior Achievement Award** (2014); ISRS **Recognition Award** (2016); **Lans Distinguished Award** (AAO/ISRS).
- **Bruce Jackson Lecture Award** (Canadian Ophthalmological Society, 2017).
- **Whitney Sampson Lecture Award** (Eye & Contact Lens Association, 2022).
- **Prix de l’Oeil** (Fondation de France, 2022).
- Repeated inclusion on *The Ophthalmologist Power List* (2018, 2020, 2022–2025).
- **Knight of the Order of the Crown** (Kingdom of Belgium, 2015).
- 21 **Best Paper of Session** awards (ASCRS).

Editorial Boards

- *Journal of Refractive Surgery* (Editorial Board).
- *International Journal of Keratoconus and Ectatic Corneal Diseases* (Editorial Board).

Professional Societies & Committee Service

- ISRS (International Society of Refractive Surgery) — Executive Committee.
- ESCRS — Research Committee; Digital Health Committee.
- SAFIR (French Refractive and IOL Surgery Society) — Board Member.
- French Society of Ophthalmology; AAO; ASCRS; ARVO.

Productized Innovations (clinical adoption)

- **FineVision** trifocal diffractive IOL — *U.S. FDA approval: September 2025*.
- **READ** presbyopia laser algorithm — implemented on **Alcon WaveLight EX500** in selected markets.
- **SCORE Analyzer** for corneal topography — initially on Orbscan; currently on **Heidelberg Engineering ANTERION** (AS-OCT).

Research Interests & Ongoing Activities

- IOL optical design and analysis (designer of the first trifocal diffractive IOL); IOL power calculation (co-conceptor, PEARL–DGS).
- Mathematical modeling of laser refractive surgery (ablation profiles), ocular aberrometry (LD–HD polynomials), and physiological optics.
- AI applications in anterior segment pathology: SS-OCT cataract grading, edema detection, keratoconus classification and risk analytics.

- Corneal topography/tomography, subclinical keratoconus detection, and corneal biomechanics.
- Optical quality assessment of intraocular lenses and laser treatments; characterization and bench-to-clinic translation.
- Design of multifocal IOLs and presbyopia laser corrections; personalized ablation profiles (READ).

Patents (by family; representative publications)

1. **Method for optimizing formulas for calculating intraocular lens power**
Representative: US 2025/0017722 A1 (application, 2025). Assignee: Fondation Adolphe de Rothschild. Co-inventor: G. Debellemanière.
2. **Trifocal intraocular lens with extended range of vision and correction of longitudinal chromatic aberration**
Representative: US 11,129,707 B2 (2021); WO 2017/025624 A1; EP 3130314 A1. Assignee: PhysIOL SA. Co-inventors: C. Pagnouille, S. Redzovic, L. Voisin, J.-J. Loicq.
3. **Intraocular lens**
Representative: US 8,636,796 B2 (2014); EP 2503962 B1; WO 2011/092169 A1. Assignee: PhysIOL SA. Co-inventors: Y. Houbrechts, C. Pagnouille.
4. **Apparatus and method for analyzing ocular data**
Representative: EP 2594192 B1 (2020). Assignee: Technolas Perfect Vision GmbH. Co-inventors: A. Saad, G. Youssefi, H. Zhang.
5. **Ocular wavefront-correction profiling**
Representative: US 7,331,668 B2 (2008); US 7,341,345 B2 (2008); US 7,901,076 B2 (2011); US 8,267,515 B2 (2012); EP 1786312 B1; WO 2006/014624. Assignee: Massachusetts Eye and Ear Infirmary. Co-inventors: D. T. Azar, J. Malet.
6. **Method for modelling an intraocular lens and intraocular lens**
Representative: EP 2177179 B1; US 2010/0094604 A1. Assignee: Carl Zeiss Meditec France SAS. Co-inventors: M. Gerlach, J. Buchheister.
7. **Optical test lenses for the correction of third- and fourth-order aberrations (coma, trefoil, spherical aberration)**
Representative: FR 2868170 A1 (2005). Sole inventor.

AI Projects & Publications (selected)

- **2025 — CATALYZE (SS-OCT, deep learning for cataract grading):** Panthier C, Zéboulon P, Rouger H, Bijon J, **Gatinel D**. *J Cataract Refract Surg*. 51(3):222–228.
- **2024 — Deep learning for total corneal astigmatism (IOL planning):** Wallerstein A, Fink J, Shah C, **Gatinel D**, et al. *J Clin Med*. 13(18):5617.
- **2024 — Eye-rubbing detection via smartwatch (machine learning):** Elahi S, Mery T, Panthier C, Saad A, **Gatinel D**, et al. *Transl Vis Sci Technol*. 13(9):1.
- **2023 — DL to estimate RGP base curve (keratoconus fitting):** Risser G, Mechleb N, Muselier A, **Gatinel D**, Zéboulon P. *Cont Lens Anterior Eye*. 46(6):102063.

- **2021** — **DL visualization of corneal edema on OCT:** Zéboulon P, Ghazal W, **Gatinel D**. *Cornea*. 40(10):1267–1275.
- **2020** — **Unsupervised clustering of corneal topography:** Zéboulon P, Debellemanière G, **Gatinel D**. *Sci Rep*. 10(1):16973.
- **2020** — **CNN classification of corneal topography raw data:** Zéboulon P, Debellemanière G, Bouvet M, **Gatinel D**. *Am J Ophthalmol*. 219:33–39.
- **2020** — **AI to predict subjective refraction (novel polynomials):** Rampat R, Debellemanière G, Malet J, **Gatinel D**. *Sci Rep*. 10(1):8565.
- *(Review)* **2024** — **AI applications in cataract & refractive surgery:** Rampat R, Debellemanière G, **Gatinel D**, Ting DSJ. *Curr Opin Ophthalmol*. 35(6):480–486.

Key Concepts & Tools Introduced

- **Keratoconus / ectasia detection.** *SCORE Analyzer* (software) built on Placido- and tomography-derived indices; **initially implemented on the Orbscan (Bausch & Lomb), then on the OPD-Scan (NIDEK), and now implemented on the ANTERION anterior-segment OCT (Heidelberg Engineering).**
- **IOL optics & IOL power calculation.** Monte Carlo simulations for thick-lens IOL power (*Acta Ophthalmol*, 2024); linking predicted vs. achieved refraction to IOL power (*JCRS*, 2025); co-conceptor of the open-source ML thick-lens formula **PEARL–DGS** — **currently deployed on the ESCRS website, with ASCRS website integration underway, and embedded in selected biometers (Heidelberg Engineering ANTERION; CSO MS–39; and a MediWorks DEA520 topographer–biometer).** Corneal power estimation and keratometric index refinement (*J Refract Surg*, 2023; *Graefes Arch Clin Exp Ophthalmol*, 2024; *Ophthalmic Physiol Opt*, 2025).
- **Corneal ablation physics.** Theoretical and experimental models for effective optical zones: laser-induced increased depth-of-field profiles (*J Refract Surg*, 2021) and control of prolateness to manage spherical aberration in hyperopic LASIK (*JCRS*, 2024), anchored in earlier elevation/topography modeling (*Cornea*, 2011).

Books

- Azar DT, **Gatinel D**, Ghanem R, Taneri S. *Refractive Surgery*, 3rd ed. Elsevier, 2019.
- **Gatinel D**. *Topographie cornéenne*, 2nd ed. Elsevier, 2014. (French)
- **Gatinel D**. *Topographie cornéenne*. Elsevier, 2011. (French)
- Azar DT, **Gatinel D**. *Refractive Surgery*, 2nd ed. Mosby–Elsevier, 2006.
- **Gatinel D**, Hoang-Xuan T. *Le LASIK: de la théorie à la pratique*. Elsevier, 2003. (French)

Book Chapters

- >20 chapters in English-language ophthalmology and refractive surgery textbooks.

Lectures & Teaching

- **>500 invited presentations** at international conferences (ASCRS, ESCRS, AAO, ARVO, WOC, ISRS, etc.).
- **Named & Keynote Lectures (documented):** Bruce Jackson Lecture Award (Canadian Ophthalmology Society, 2017); Whitney Sampson Lecture Award (Eye & Contact Lens Association, 2022).
- **Education & Teaching:** Regular invited faculty and speaker at ASCRS and ESCRS instructional courses on IOL power calculation, optical design and refractive surgery.

Websites & Outreach

- www.gatinel.com (refractive surgery resource in French; est. 2006, >2,000 unique visits/day).
- www.iolcalculator.com (IOL power calculation using PEARL–DGS formula, thousands of predictions/day).
- Public engagement: TV/radio features in France on laser vision correction, cataracts, and presbyopia.

Languages

French (native); English (fluent); Spanish (conversational).

Bibliometrics (Google Scholar)

Citations: **8040** (since 2020: 4206) *h*-index: **46** (since 2020: 35) *i*10-index: **138** (since 2020: 100).

Publications (Full PubMed List, numbered as provided)

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257. Gatinel D. An optical method for deriving the anterior and posterior curvatures of intraocular lenses using dual back-vertex power measurements. *PLoS One*. 2025;20(12):e0337041. doi: 10.1371/journal.pone.0337041.
256. Gatinel D, Malet J. Vergence-based ocular wavefront expansions in diopters: orthogonal functions, clinical metrics, and visualization tools. *J Opt Soc Am A. J Opt Soc Am A*. 2025;42:1846-1863.
255. Fitoussi L, Panthier C, Mechleb N, Gatinel D, Saad A. Corneal Artificial Endothelial Layer (EndoArt) in Outpatients: Outcomes From a Case Series. *Cornea*. 2025 Oct 1. doi: 10.1097/ICO.0000000000004011. Epub ahead of print. PMID: 41236422.
254. Mechleb N, Gatinel D, Saad A. Reply. *Cornea*. 2025 Oct 8. doi: 10.1097/ICO.0000000000004015. Epub ahead of print. PMID: 41236379.
253. Debellemanière G, Mechleb N, Gauvin M, Wallerstein A, Albert L, Duong HYL, Tanaka L, Brenner L, Saad A, Gatinel D. Postoperative data leakage in AI-based IOL power prediction formulas: a

- hidden source of bias. *Exp Eye Res.* 2025 Oct 27;110700. doi: 10.1016/j.exer.2025.110700. Epub ahead of print. PMID: 41161368.
252. Langenbucher A, Hoffmann P, Cayless A, Szentmáry N, Riaz K, Gatinel D, Findl O, Pantanelli S, Yeo TK, Savini G, Wendelstein J. Predictive Correction Model for Corneal Back Surface Astigmatism With IOLMaster700 Keratometry Data in a Cataractous Population. *Clin Exp Ophthalmol.* 2025 Oct 25. doi: 10.1111/ceo.70009. Epub ahead of print. PMID: 41137764.
251. Theuriau A, Partouche S, Gatinel D, Panthier C. Digital 3D "heads-up" LASIK surgery: feasibility, surgical duration, complication rates and comparison with a conventional microscope. *J Cataract Refract Surg.* 2025 Sep 2. doi: 10.1097/j.jcrs.0000000000001776. Epub ahead of print. PMID: 40896826.
250. Rizk M, Bijon J, Gatinel D, Panthier C. Corneal intrastromal silicone injection in severe corneal decompensation as a last resort for pain management: A case series. *J Fr Ophtalmol.* 2025 Aug 27;48(8):104626. doi: 10.1016/j.jfo.2025.104626. Epub ahead of print. PMID: 40876324.
249. Zéboulon P, Mechleb N, Rizk M, Flamant R, Duncker T, Neuhann R, Gatinel D, Saad A. Validation of a new Implantable Collamer Lens sizing algorithm based on the Anterior swept source OCT images. *J Cataract Refract Surg.* 2025 Aug 19. doi: 10.1097/j.jcrs.0000000000001764. Epub ahead of print. PMID: 40827890.
248. Langenbucher A, Szentmáry N, Wendelstein J, Cayless A, Hoffmann P, Gatinel D. A two-step formula constant optimization strategy for minimal standard deviation and zero mean prediction error in IOL power calculation. *Acta Ophthalmol.* 2025 Aug 5. doi: 10.1111/aos.17569. Epub ahead of print. PMID: 40762467.
247. Nouria C, Ghazal W, Panthier C, Saad A, Gatinel D. Monoclonal gammopathy presenting with paraproteinemic keratopathy documented with anterior segment OCT: a case report. *BMC Ophthalmol.* 2025 Jul 1;25(1):356. doi: 10.1186/s12886-025-04161-1. PMID: 40597873; PMCID: PMC12219982.
246. Mechleb N, Rizk M, Debellemanière G, Gatinel D, Saad A. Ten years of Descemet membrane endothelial keratoplasty: Identifying risk factors and early failure signs. *Indian J Ophthalmol.* 2025 Jul 1;73(7):1021-1026. doi: 10.4103/IJO.IJO_2273_24. Epub 2025 Jun 30. PMID: 40586188; PMCID: PMC12356414.
245. Langenbucher A, Wendelstein J, Cayless A, Szentmáry N, Hoffmann P, Cooke D, Gatinel D, Goggin M, Yeo TK, Olsen T. Deciphering corneal astigmatism: calculation pitfalls and how to avoid them. *J Cataract Refract Surg.* 2025 Oct 1;51(10):933-935. doi: 10.1097/j.jcrs.0000000000001717. PMID: 40495329; PMCID: PMC12447805.
244. Stern B, Gatinel D, Nicolaos G, Grise-Dulac A. Intraocular lens models: Ecological distribution footprint and usage trends at a large ophthalmology centre. *Eye (Lond).* 2025 Aug;39(11):2260-2268. doi: 10.1038/s41433-025-03848-5. Epub 2025 May 20. PMID: 40394265; PMCID: PMC12274355.
243. Sapok E, Kaiser KP, Kohnen T, Schmack I. Comparison of 11 Intraocular Lens Power Calculation Formulas in Eyes Undergoing Simultaneous Cataract Surgery and Descemet Membrane Endothelial Keratoplasty. *Am J Ophthalmol.* 2025 Sep;277:295-304. doi: 10.1016/j.ajo.2025.04.041. Epub 2025 May 15. PMID: 40381708.
242. Stern B, Saad A, Gatinel D. In Vitro Comparison of an Aspherical Monofocal Lens Inducing Positive Spherical Aberrations With a Spherical Lens. *J Refract Surg.* 2025 May;41(5):e481-e491. doi: 10.3928/1081597X-20250403-02. Epub 2025 May 1. PMID: 40340676.

241. Marcos S, Artal P, Gatinel D, Lundström L, Yoon G, Lewis N. Introduction to the feature Issue "Improving Vision through Intraocular Lenses": a tribute to Jim Schwiegerling. *Biomed Opt Express*. 2025 Mar 28;16(4):1707-1710. doi: 10.1364/BOE.561537. PMID: 40322018; PMCID: PMC12047719.
240. Loicq J, Gatinel D, Willet N, Pagnouille C, Dietens M, Trigallez S. Correlation with a multifocal intraocular lens of in vitro figures of merit with clinical visual acuity. *J Cataract Refract Surg*. 2025 Aug 1;51(8):703-712. doi: 10.1097/j.jcrs.0000000000001682. PMID: 40296278.
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237. Redden LD, Grubauer B, Hoffmann P, Langenbacher A, Riaz KM, Gatinel D, Wagner H, Wendelstein JA. Response to Comment on: Intraocular Lens Power Calculation-Comparing Big Data Approaches to Established Formulas. *Am J Ophthalmol*. 2025 Aug;276:397-399. doi: 10.1016/j.ajo.2025.03.045. Epub 2025 Apr 1. PMID: 40180010.
236. Gatinel D, Debellemanière G, Saad A, Malet J. Relationship between intraocular lens power and ocular refraction variations. *J Cataract Refract Surg*. 2025 Jun 1;51(6):488-495. doi: 10.1097/j.jcrs.0000000000001633. PMID: 40053608.
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- ratio: a non-inferiority study. *Minerva Anestesiol.* 2025 Mar;91(3):176-183. doi: 10.23736/S0375-9393.24.18455-6. Epub 2024 Dec 4. PMID: 39630143.
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