QUENTIN GLORIEUX

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40 years old

OVERVIEW

Full Professor, IUF Junior Fellow, Quantum Optics and Quantum Engineering experiments.

CURRENT AND PAST POSITIONS

IUF Junior Fellow 2023–2028
Institut Universitaire de France

IUF Junior Fellow 2018–2023
Institut Universitaire de France

Full Professor of Physics 2013–
Sorbonne University – Science and Engineering Department, Paris

- Quantum Optics Research: fluids of light in exciton-polariton systems and warm atomic media, superfluidity, quantum simulation using atomic-based quantum memories
- Photonic Quantum Technologies Research: interactions between nano-emitters (SiV nanodiamonds, perovskite nanocrystals, colloidal quantum dots) and nanowaveguides (tappered fibers)
- Teaching: Quantum Mechanics, Optical engineering, Experimental Physics, and Scientific Computing

Marie Skłodowska-Curie Postdoctoral Fellow 2010-2013
National Institute of Standards and Technologies – NIST, Gaithersburg

- Laser Cooling & Trapping group of Prof. William D. Phillips and Paul D. Lett: research on four-wave mixing, atomic vapor photonic memory and quantum information in dispersive media

Invited Postdoctoral Fellow (6 months) 2012
Australian National University – ANU, Canberra.

- Quantum Optics group of Prof. Ping Koy Lam: research on quantum memory in cold atomic clouds

EDUCATION

Habilitation 2018
Sorbonne Université, France
Quantum Optics in Dense Atomic Media. From Optical Memories to Fluid of Light.

PhD in Physics 2007-2010
Université Paris Diderot, France.
Theory and Experiments on multimode entanglement using Four-Wave-Mixing in a hot atomic vapor
Thesis advisor: Prof. Thomas Coudreau. Laboratoire Matériaux et Phénomènes Quantiques

Master in Optics and Photonics 2006-2007
Ecole Polytechnique & Institut d'Optique, France
Academic/Research at ICFO - Prof. Juergen Eschner Group - Spain

Engineer Degree in Optics 2003-2007
Institut d'Optique – Graduate School, France

Fellowships and Awards

- 2023 – ERC Consolidator Grant (5 years).
- 2023 – IUF Junior Fellowship (5 years).
- 2018 – IUF Junior Fellowship (5 years).
- 2016 – Invited Associate Professor at East China National University, Shanghai (1 month).
- 2014 – Paris Young scientist "Emergences" award for starting an independent team.
- 2011 – Marie Curie IOF Postdoctoral fellowship (3 years).
- 2010 – NIST–JQI International Postdoctoral fellowship (2 years).

Comissions of trust

- 2023 – **Scientific Evaluator** for the Israel Science Foundation (ISF).
- 2021 – **Scientific Evaluator** for the ANR, french national funding agency.
- Since 2020 – **Scientific Evaluator** for the FET Open European program.
- Since 2018 – **Scientific Evaluator** for the Marie Curie European fellowship program.
- 2017 – **Scientific Evaluator** for the ANR, french national funding agency.
- 2017 – **Scientific Evaluator** for the Caixa fellowship program.
- 2016 – **Scientific Evaluator** for the Grenoble University - AGIR funding program.
- 2015 – **Session Chair** at Photonics West 2015. Quantum Sensing and Photonic Devices.
- Since 2010 – **Reviewer** for Nature Physics, Nature Communications, Phys. Rev. Lett., Phys. Rev. A, Phys. Rev. B, Optics Express, Optica, EPJD, New Journal of Physics, Optics Letters, Scientific Reports, Applied Physics B, Applied Physics Letters.

Institutional Responsibilities

- 2023 · today – **Board Member** of the ccientific committee at Cargese Scientific Institute.
- 2023 · today – **Board Member** of the IUF Administrative committee.
- 2022 · today – **Board Member** of the Scientific Advisory Committee of EPJ journals.
- 2020 · today – **Board Member** of Open Science committee for the French Physics Society (SFP).
- 2018 · 2020 – **Elected member** at the Science faculty board of Sorbonne University.
- 2016 · 2018 – **Supervisor** of the international mobility program for Master students at the Sorbonne Physics Department.
- 2014 · 2016 – **Board member** of the Laboratory Kastler Brossel executive and scientific committee.
- 2014 · 2019 – **Elected member** of the national CNU committee (Conseil National des Universités) - Atomic Physics & Optics division. Substitute Member.
- 2008 · 2010 – **Elected student member** of the Université Paris Diderot scientific committee.
- Since 2013 – **Member** of the LKB Dissemination and Outreach committee, organizer of the Quantum Optics internal seminar, co-organizer of Fete de la Science : a national general public event with lab visits and scientific hands-on demonstrations.

Invited Talks at International Conferences

28. Quantum Fluids of Light and Matter, Ettore Majorana Center in Erice, Sicily, 11/24
27. Hot atoms workshop 2024, Stuttgart, Germany, 10/24
26. WE-Heraeus - Long Range Interacting Quantum Systems, Bad Honnef, Germany, 05/24
25. Les Houches Quantum Information Spring School, Les Houches, France, 05/24
24. International Conference on Quantum Simulation, Palaiseau, France, 11/23
23. Les Houches School on quantum gases in low dimension, Les Houches, France, 03/23
22. Isaac Newton Mathematics Institute Workshop, Cambridge, UK, 12/22
21. GDR IQFA final meeting - C2N, Palaiseau, France, 11/22
20. GDR Gaz Quantiques, Lille, Portugal, 09/22
19. EOS Annual Meeting, Porto, France, 10/22
18. Dynamics Days Europe - Vortex Dynamics and Turbulence, Nice, France, 08/21
17. Les Houches School on Quantum Technology, Les Houches, France, 09/20
16. French-German WE-Heraeus-Seminar 2020 - Long Range Interacting Quantum Systems: from Cold Atoms and Molecules to Photons, Online Conference, 09/20
15. IQUPS School 2019 - Lecture on Quantum Engineering, Palaiseau, France, 12/19
14. BEC 2019 - Bose Einstein Condensate, San Feliu, Spain, 09/19
13. Simulating gravitation in condensed matter and optical systems, Trento, Italy, 07/19
12. ICQOQI'2019 – Quantum Optics and Quantum Information, Minsk, Belarus, 05/19
11. JMC 2018 - Condensed matter and cosmology, Grenoble, France, 08/18
10. Quantum Fluid of Light and Matter QFLM18, Les Houches, France, 06/18
9. Condensates of Light, Bad Honnef, Germany, 01/18
8. School on Nano and Quantum Optics, Les Houches, France, 10/17
7. Universal Aspects of Quantum Turbulence, Nice, France, 10/17
6. ONNA 2017, Okinawa, Japan, 05/17
5. Fluid of Light international workshop, Edinburgh, UK, 10/16
4. Photonics West, San Franciso, USA, 02/15
3. ICCS14, Hong Kong, China, 12/14
2. OSA International Conference on Quantum Information ICQI 11, Ottawa, 06/11
1. French-Israeli Symposium on Nonlinear and Quantum Optics, Aussois, France, 02/11

Invited Seminars and Colloquia

38. Vienna, Colloquium, University of Vienna, Austria, 03/25
37. Heidelberg, Chomaz group, University of Heidelberg, Germany, 06/24
36. Strathclyde, Wilson group, Strathclyde, UK, 05/24
35. IOGS, Aspect group, Université Paris Saclay, France, 01/23
34. LCAR, Université de Toulouse, France, 01/23
33. LPMMC, Université Grenoble Alpes, France, 11/22
32. PhLAM Seminar, Université de Lille, France, 06/22
31. GDR Complex, Institut Langevin, Paris, France, 12/21
30. LPL Seminar, LPL, Villetaneuse, France, 04/21
29. ICFP Seminar, ENS, Paris, France, 09/20
28. NanoBright workshop, IIT, Lecce, Italy, 06/19
27. IPCMS – Université de Strabourg, Strabourg, France, 06/19
26. LP2N – Université de Bordeaux, Bordeaux, France, 06/19
25. Institut Néel – Université de Grenoble Alpes, Grenoble, France, 04/19
24. InPhyNi – Université de Nice Côte d'Azur, Nice, France, 04/19
23. GdR Complexe – Institut Langevin, Paris, France, 04/19
22. Colorado State University, Fort Collins, CO, USA, 02/19
21. University of Trento, BEC-Center, Italy, 02/19
20. University of Stuttgart, Tillman Pfau group, Germany, 12/18
19. University of Vienna, CoQuS Colloquium, Austria, 11/18
18. Université Nice Cote d'Azur, InPhyNi, France, 04/18
17. East China Normal University, Shangai, China, 12/17
16. Mairie de Paris, Emergences seminar, Paris, France, 05/17
15. Herriot Watt University, Daniele Faccio group, Edinburgh, UK, 04/17
14. Niels Bohr Institutet, Københavns Universitet, Peter Lodahl group, 03/17
13. Herriot Watt University, Daniele Faccio group, Edinburgh, UK, 11/16
12. Stanford University, Jelena Vuckovic group, CA, USA, 02/15
11. INO-CNR BEC Center, Trento, Italy, 01/15
10. East China Normal University, Shangai, China, 12/14
9. University of Science and Technology, Heifei, China, 12/14
8. Université Technologique de Troyes, UTT, Troyes, France, 04/14
7. Ecole Normale Supérieure Seminar, France, 10/13
6. Université de Genève, Nicolas Gisin group, Switzerland, 05/12

5. Australian National University - Physics department, Canberra, Australia, 05/12
4. Harvard University, Mikhail Lukin group, Boston, USA, 08/10
3. MIT, Vladan Vuletic group, Boston, USA, 08/10
2. Caltech, Jeff Kimble group, Pasadena, USA, 08/10
1. NIST-JQI, Bill Phillips group, Gaithersburg, USA, 07/10

ORGANIZATION OF SCIENTIFIC MEETING

- 2024 – **Organizer** of the Predoc School on Cold Atoms: Quantum Gases and Quantum Fluids of Light in Les Houches. 20 invited lecturers - 80 participants - 11 days.
- 2023 – **Organizer** of a Workshop in Les Houches on Out-of-equilibrium physics with photons and atoms. 14 invited lecturers - 80 participants - 5 days.
- 2022 – **Organizer** of a Scientific School in Les Houches on Quantum Information Spring School. 20 invited lecturers - 80 participants - 11 days.
- 2021 – **Organizer** of a Scientific School in Cargese, France on Quantum information and quantum technologies 10 invited lecturers - 80 participants - 6 days.
- 2021 – **Member of technical program committee**: Quantum Optics of Atoms, Molecules, and Solids for CLEO:2021, San Jose, USA.
- 2020 – **Organizer** of a Scientific School in Les Houches, France on Quantum technologies with light and matter 8 invited lecturers - 40 participants - 6 days.
- 2019 – **Organizer** of the Colloquium on Fluids of Light at the 2019 SFP Congress, Nantes, France. 650 participants - 4 days.
- 2019 – **Organizer** of a Scientific School in Les Houches, France on Light-matter interaction 12 invited lecturers - 80 participants - 6 days.
- 2018 – **Organizer** of a Scientific School in Les Houches on Nano & Quantum Optics. 20 invited lecturers - 80 participants - 11 days.
- 2017 – **Member of program committee** for QCMC 2018 - Baton Rouge, USA.
- 2016 – **Member of the organizing committee** of the CNRS Physics days at Agay, France. 100 participants - 3 days.
- 2016 – **Co-Organizer** of the ANR Quandyde workshop on Quantum Fluids of Light at Sorbonne University, Paris. 30 participants - 2 days.
- 2010 – **Member of the organizing committee** of the LKB Scientific days at Chales, France. 150 participants - 3 days.

Teaching

- Since 2018. As an IUF Fellow, I am teaching only 64h/years since 2018. I am focusing my teaching activity on two courses: Scientific computing for Physicists and graduate lectures on Laser and quantum optics.
- 2018. **Main Online Instructor** for Quantum Mechanics course in the Virtual Exchange Program.
- Since 2013. **Teaching at the Physics Department of Sorbonne University**.
  192h of lectures per year.
  Undergraduate lectures in **Quantum Mechanics**, Wave Physics, Scientific computing.
  Undergraduate laboratory courses in **Optics**, Thermodynamics, Electronics.
  Graduate lectures in **Quantum Optics** and **Lasers**.
  Advisor for students who are half-time studying and half-time working as apprentice.
  Supervisor of the Quantum Mechanics class for undergraduate students ($\simeq$ 200 students).
- Since 2017. **Member of the academic council** in charge of the allocation of resources for teaching (number of hours, fundings, ECTS).
- 2012. **Online Instructor** to a Massive Online Open Course (MOOC) on Coursera.org : "Exploring Quantum Physics" under the supervision of V. Galitski and Charles Clark.
- 2007-2010. **Teaching Assistant** : 64h per year - Tutorials of Mathematics for biologists and physicians at Université Paris Nord.

PhD theses Supervision

1. Mathieu Manceau – PhD 2014 – Co-supervision, "Single CdSe/CdS dot-in-rods fluorescence properties." *UPMC*. Now Assistant Prof. at University Paris Nord.
2. Thomas Boulier – PhD 2014 – Co-supervision, "Controlled vortex lattices and non-classical light with microcavity polaritons." *UPMC*. Now Assistant Prof at Toulouse University.
3. Maxime Joos – PhD 2018, Supervision, "Hybrid devices : nanoparticles coupled to optical nanofiber" *Sorbonne University*. Now Researcher at CAILABS.
4. Quentin Fontaine – PhD 2020, Supervision, "Paraxial fluid of light in hot atomic vapors." *Sorbonne University*. Now postdoc at C2N, Palaiseau.
5. Anne Maitre – PhD 2020 – Co-supervision, "Generation, propagation and control of quantized vortices and dark solitons in polariton superfluids." *Sorbonne University*
6. Chengjie Ding – PhD 2021 – CSC Fellowship – Co-supervision, "Nanofiber resonators for non linear optics." *Sorbonne University - East China Normal University*. Now Researcher at WeLinq.
7. Murad Abuzarli – PhD 2022 – Supervision, "Out of equilibrium dynamics in a paraxial fluid of light." *Sorbonne University*. Now Marie-Curie Postdoc at Vienna.
8. Ferdinand Claude – PhD 2022 – Co-supervision, "High resolution coherent spectroscopy of a polariton fluid : Bogoliubov modes, non equilibrium phase transitions and turbulence" *Sorbonne University*. Now Postdoc at Singapour.
9. Wei Liu – PhD – CSC Fellowship 2022 – Supervision, "Optomechanical signature of superfluidity of light." *Sorbonne University*
10. Tangui Aladjidi – PhD 2023 – Supervision, "Full optical control of quantum fluids of light in hot atomic vapors" *Sorbonne University*. Now Researcher at Quobly.

11. Myrann Abobaker – PhD (graduation in 2025) – Supervision, "Turbulent effects in paraxial fluids of light" *Sorbonne University*
12. Clara Piekarski – PhD (graduation in 2025) – Supervision, "Bose Mixture in paraxial fluids of light" *Sorbonne University*
13. Alix Merolle – PhD (graduation in 2026) – Supervision, "1D quantum fluids of light" *Sorbonne University*
14. Lucien Belzanne – PhD (graduation in 2026) – Co-upervision, "Integrated single-photon sources in optical nanofibers" *Sorbonne University*
15. Quentin Schibler – PhD (graduation in 2027) – Supervision, "Feedback loop and computed tomography in quantum fluids of light" *Sorbonne University*
16. Sukhman Kler – PhD (graduation in 2027) – Supervision, "Fluids of light in cold atomic cloud" *Sorbonne University*
17. Simon Lepleux – PhD (graduation in 2027) – Supervision, "EIT protocols for enhanced interaction in quantum fluids of light" *Sorbonne University*

Master theses Supervision

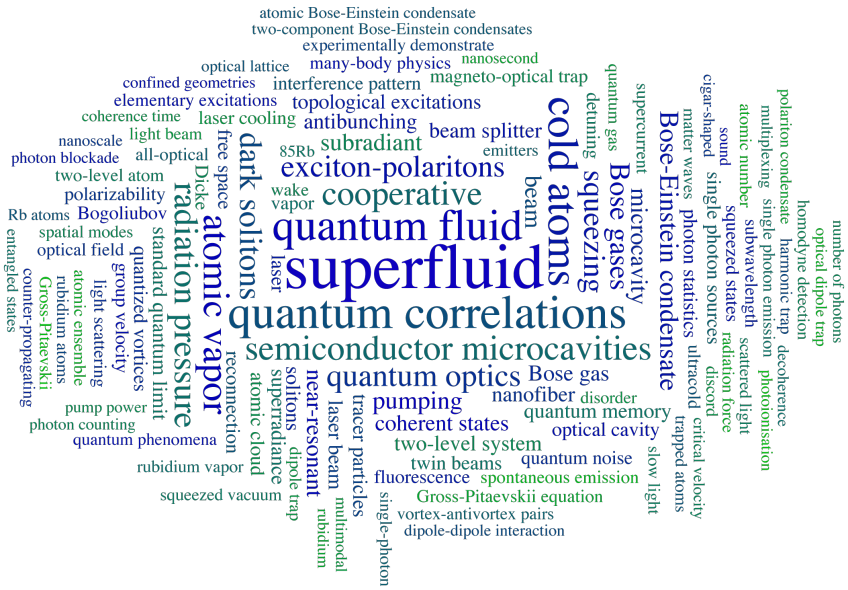
1. Salma Aziam – Master 2014, "Etude du couplage de nanocristaux à une fibre optique étirée." *UPMC*
2. Nicolas D. Sangouard – Master 2014, "Propriétés quantiques de la lumière émise par des polaritons dans un micropilier semiconducteur excité hors résonance." *ENS Cachan*
3. Pauline Boucher – Master 2015, "Superfluidity of light." *Ecole Polytechnique*
4. Antonine Rochet – Master 2015, "An Introduction to Quantum Fluid of Light." *UPMC*
5. Peyuan He – Master 2015, "Fabrication of microfiber knots and tips." *UPMC*
6. Stefano Pierini – Master 2016 – Co-supervision, "Experimental study of superfluidity effects in quantum fluids of light." *Universita de Firenze*
7. Dhruv Sharma – Master 2016, "Superfluidity of light." *Ecole Polytechnique*
8. Agostino Apra – Master 2017, "Superfluidity of light in a nonlinear atomic medium." *Sapienza, Universita di Roma*
9. Romain Gautier – Master 2017, "Étude théorique de microstructures photoniques basées sur des nanofibres optiques." *UPMC*
10. Ferdinand Claude – Master 2019, "Interactions between imprinted solitons in exciton-polariton systems." *Sorbonne University*
11. Sagnik Ghosh – Master 2019, "Feedback loop for an infinitely long fluid of light simulation." *Indian Institute of Science Education and Research (IISER), Pune*
12. Andrés Martínez de Velasco E. – Master 2019, "Numerical simulations for generating a defect potential in a fluid of light." *Freie Universität Berlin*
13. Huiqin Hu – CSC Fellowship 2019, "Scattering, thermalization and shockwaves in a fluid of light." *Sorbonne University - East China Normal University*
14. Tangui Aladjidi – Master 2020, "High resolution phase camera using the WHISH algorithm. [Not available online for IP protection]" *Ecole Polytechnique*
15. Clara Piekarski – Master 2020, "Bragg spectroscopy in a paraxial fluid of light." *Ecole Polytechnique*

16. Yuhao Liu – Master 2020, "Analogue gravity in polariton superfluids." *Sorbonne University*
17. Yanis Ghanem – Master 2020, "Hawking radiation in a polariton quantum fluid." *Institut d'Optique*
18. Guillaume Brochier – Master 2021, "Optical control upon quantum fluids of light." *ENS Lyon*
19. Myrann Abobaker – Master 2021, "Turbulence in counter-streaming paraxial superfluids of light." *Sorbonne Université*
20. Alix Merolle – Master 2023, "Dispersion relation in 1D fluids of light" *Sorbonne Université*
21. Quentin Schibler – Master 2024, "Feedback loop for time resolution in fluids of light" *ENS Saclay*
22. Simon Lepleux – Master 2024, "Turbulence and vortex collision in fluids of light" *ENS Saclay*
23. Sukhman Kler – Master 2024, "Fluids of light in cold atomic samples" *University of Toronto*
24. Noé Grenier – Master 2024, "Multi-component fluids of light using Rb isotopes" *ENS Saclay*

Funding

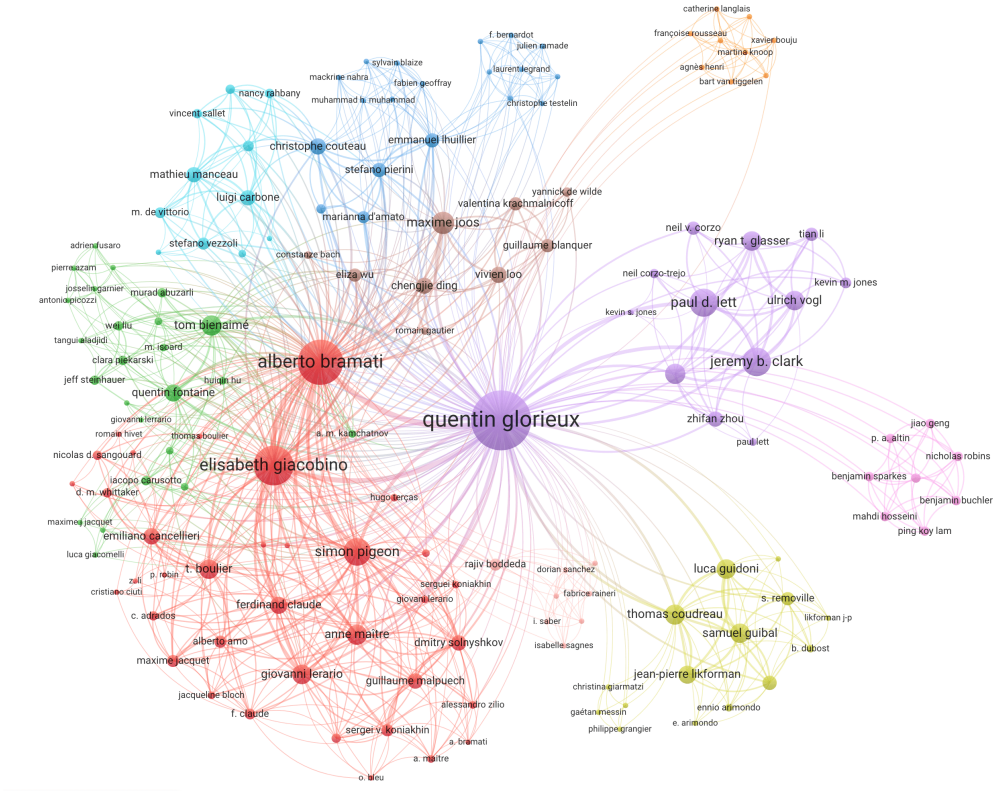
- Institut Universitaire de France (IUF) Junior Fellowship, "ColdAtomLight", 255,000€, **PI**, (2023 - 2028).
- ERC Consolidator Grant, "MistiQ Light - Mott Insulator Phase Transition in a Quantum Fluid of Light", 2,000,000€, **PI**, (2023-2028).
- Agence Nationale de la Recherche (ANR) - Projet collaboratif entreprise, "FOLIO (Fluids Of Light in hollow-core fiber mIcrO-cells)", 260,000€, **PI**, (2023-2026).
- Agence Nationale de la Recherche (ANR) - T-ERC, "MistiQ", 100,000€, **PI**, (2022-2023).
- Agence Nationale de la Recherche (ANR) - Projet collaboratif, "Quantum-SOPHA, Quantum Simulators for One-Dimensional Systems with Photons and Atoms)", 220,000€, **WP Leader**, (2021-2024).
- SIRTEQ - Equipement Mi-Lourd, "Hydro-Live", 180,000€, **Partner**, (2020-2023).
- SIRTEQ - PME, "Vortex-Mix", 55,000€, **PI**, (2019-2021).
- Institut Universitaire de France (IUF) Junior Fellowship, "Q-Flame - Quantum Fluids of Light in dilute Atomic Media", 255,000€, **PI**, (2018 - 2023).
- European Quantum Technologies Flagship - Quantera, "PhoQuS - Photons for Quantum Simulation", 320,000€, **co-Investigator and WP leader**, (2018 - 2021).
- Agence Nationale de la Recherche (ANR) - Projet collaboratif, "UNIQ – Unconventional Integrated nanophotonic sources with Quantum correlations", 155,000€, **Partner**, (2016 - 2020).
- Agence Nationale de la Recherche (ANR) - Projet collaboratif, "TeraMicroCav – Génération de rayonnement Téra-Hertz dans des microcavités semiconductrices", 168,000€, **Partner**, (2016 - 2020).
- Agence Nationale de la Recherche (ANR) - Projet collaboratif, "QFL - Quantum Fluids of Light", 237,000€, **Partner**, (2016 - 2020).
- Agence Nationale de la Recherche (ANR) - Accueil Chercheur de Haut Niveau, "C-FLight – Correlated fluid of light : hydrodynamical and thermodynamical aspects", 440,000€, **Coordinator**, (2015 - 2019).
- Ile de France Research program , "COSINE - Controlled Nanopositioning of Single Emitters in nanostructured environments", 121,000€, **PI**, (2015 - 2017).
- Emergences Ville de Paris, "Nano^2 - Nanocrystals in nanofiber Fabry-Perot cavities", 238,000€, **PI**, (2014 - 2018).

Scientific Interests



Most commonly used words in articles available on arXiv co-authored by Quentin Glorieux.

Collaborators



Network of collaborators with at least 1 publication in common with Quentin Glorieux. Node size is proportional to the number of common publications. Colors are encoding clusters of scientific communities.

Publications list - March 2025

Pending manuscripts [arXiv]

70. Machine learning approach to single-shot multiparameter estimation for the non-linear Schrödinger equation .
L. Rossignol,T. Aladjidi, M. Baker-Rasooli, and **Q. Glorieux**
arXiv:2509.18479.

Peer-Reviewed Journal Papers [statistics][Full List in Open Access]

69. Paraxial Fluids of Light.
Q. Glorieux, C. Piekarski, Q. Schibler, T. Aladjidi, and M. Baker-Rasooli
Advances In Atomic, Molecular, and Optical Physics. 74, 157-241. (2025)

68. Observation of Jones-Roberts solitons in a paraxial quantum fluid of light.
M Baker-Rasooli, T Aladjidi , N. Krause, A. Bradley, **Q. Glorieux**.
Physical Review Letters 134, 233401 - Editor's suggestion. (2025).

67. Spin and Density Modes in a Binary Fluid of Light.
C. Piekarski, N. Cherroret, T. Aladjidi **Q. Glorieux**.
Physical Review Letters 134, 223403. (2025).

66. Polariton Fluids as Quantum Field Theory Simulators on Tailored Curved Spacetimes.
K. Falque, A. Delhom, **Q. Glorieux**, E. Giacobino, A. Bramati, M. Jacquet.
Physical Review Letters 135, 023401 - Featured in Physics. (2025).

65. Observation of the diffusive Nambu-Goldstone mode of a non-equilibrium phase transition.
F. Claude, M. Jacquet, M. Wouters, E. Giacobino, **Q. Glorieux**, I. Carusotto, A. Bramati.
Nature Physics s41567-025-02902-z (2025).

64. Room-temperature efficient single-photon generation from CdSe/ZnS nanoplateletes.
M. d'Amato, N. Fu, **Q. Glorieux**, E. Giacobino, H. Le Jeannic, S. Ithurria, E. Lhuillier, A. Bramati.
ACS Nano. 19, 14, 14404–14409 (2025).

63. NLSE: A Python package to solve the nonlinear Schrödinger equation.
T. Aladjidi, C. Piekarski, **Q. Glorieux**.
Journal of Open Source Software, 9(99), 6607, (2024)

62. Hot atomic vapors for nonlinear and quantum optics.
Q. Glorieux, T. Aladjidi, P. D. Lett, R. Kaiser.
New Journal of Physics 25 051201, (2023).

61. Turbulent dynamics in a two-dimensional paraxial fluid of light.
M. Abobaker, W. Liu, T. Aladjidi, A. Bramati, **Q. Glorieux.**
Physical Review A 108, 063512, (2023).

60. Highly photostable Zn-treated halide perovskite nanocrystals for efficient single photon generation.
M. D'Amato, L. Belzane, C. Dabard, M. Silly, G. Patriarche, **Q. Glorieux.**, H. Le Jeannic, E. Lhuillier, A. Bramati.
Nano Lett. 23, 22, 10228–10235 (2023)

59. Quantum vacuum excitation of a quasinormal mode in an analog model of black hole spacetime.
M. Jacquet, L. Giacomelli, M. Joly, E. Giacobino, **Q. Glorieux**, I. Carusotto, A. Bramati.
Physical Review Letters 130, 111501 , (2023).

58. Spectrum of collective excitations of a quantum fluid of polaritons.
F. Claude, M. Jacquet, I. Carusotto, **Q. Glorieux.**, E. Giacobino, A. Bramati.
Physical Review B 107, 174507 - Viewpoint in Physics, (2023).

57. Color-Tunable Mixed-Cation Perovskite Single Photon Emitters.
M. D'Amato, Q-Y Tan, **Q. Glorieux**, A. Bramati, C. Soci.
ACS Photonics 2023, **10**, 197–205, (2023).

56. Non-equilibrium pre-thermal states in a two-dimensional photon fluid.
M. Abuzarli, N. Cherroret, T. Bienaimé, **Q. Glorieux.**
Physical Review Letters - Editors' Suggestion, **129**, 100602, (2022).

55. High-resolution coherent probe spectroscopy of a polariton quantum fluid.
F. Claude, M. Jacquet, R. Usciati, I. Carusotto, E. Giacobino, A. Bramati, **Q. Glorieux**.
Physical Review Letters 129, 103601, (2022).

54. Dissipative phase transition with driving-controlled spatial dimension and diffusive boundary conditions.
Z. Li, F. Claude, T. Boulier, E. Giacobino, **Q. Glorieux**, A. Bramati, C. Ciuti.
Physical Review Letters 128, 093601, (2022)

53. Analogue cosmological particle creation in an ultracold quantum fluid of light.
J. Steinhauer, M. Abuzarli, T. Aladjidi, T. Bienaimé, C. Piekarski, W. Liu, E. Giacobino, A. Bramati, **Q. Glorieux**.
Nature Communications 13, 2890, (2022)

52. Enhanced Hawking radiation in an out-of-equilibrium quantum fluid.
M. Jacquet, M. Joly, F. Claude, L. Giacomelli, E. Giacobino, **Q. Glorieux**, I. Carusotto, A. Bramati.
European Physical Journal D (EPJD) **76**, 152, (2022).

51. Measurement of the Static Structure Factor in a Paraxial Fluid of Light Using Bragg-like Spectroscopy.
C. Piekarski, W. Liu, J. Steinhauer, E. Giacobino, A. Bramati, **Q. Glorieux**.
Physical Review Letters 127, 023401, (2021).

50. Quantitative Analysis of Shock Wave Dynamics in a Fluid of Light.
T. Bienaimé, M. Isoard, Q. Fontaine, A. Bramati, A.M. Kamchatnov, **Q. Glorieux**, N. Pavloff.
Physical Review Letters 126, 183901, (2021).

49. Dissipation-enhanced collapse singularity of a nonlocal fluid of light in a hot atomic vapor.
P. Azam, A. Fusaro, Q. Fontaine, J. Garnier, A. Bramati, A. Picozzi, R. Kaiser, **Q. Glorieux**, T. Bienaimé.
Physical Review A 104, 013515, (2021).

48. Blast waves in a paraxial fluid of light.
M. Abuzarli, T. Bienaimé, E. Giacobino, A. Bramati, **Q. Glorieux**.
Europhysics Letters EPL, **134**, 24001, (2021).

47. Spontaneous generation, enhanced propagation and optical imprinting of quantized vortices and dark solitons in a polariton superfluid.
A. Maitre, F. Claude, G. Lerario, S. Koniakhin, S. Pigeon, D. Solnyshkov, G. Malpuech, **Q. Glorieux**, E. Giacobino, A Bramati.
Europhysics Letters EPL, **134**, 24004, (2021).

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