

Quoc-Hung Nguyen

Academy of Mathematics and Systems Science,
Chinese Academy of Sciences,
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◊ [Homepage](#), ◊ [Google Scholar](#), ◊ [YouTube Channel](#), ◊ [Facebook](#)

EDUCATION

- October, 2011- September, 2014: Ph.D. of Laboratoire de Mathématiques et Physique Théorique, Université François-Rabelais, Tours, France.
Thesis title: *Nonlinear potential theory and quasilinear equations with measure data*.
Distinction awarded: Très Honorable avec Félicitations du Jury (Highly Honorable with Praises of the Jury).
Advisors: Professors Marie-Françoise Bidaut-Véron and Laurent Véron.
Referees: Professors Carlos Kenig, Guiseppe Mingione and Augusto Ponce.
Examiners: Professors Fabrice Bethuel, Marie-Françoise Bidaut-Véron, Petru Mironescu, Augusto Ponce, Philippe Souplet, Étienne Sandier and Laurent Véron.
- 2010 - 2011: Master of Science in Applied Mathematics, University of Orléans.
Advisors: Prof. Marie-Françoise Bidaut-Véron and Prof. Laurent Véron.
- 2006 - 2010: B.S in Faculty of Mathematics and Computer Science, University of Science, Hochiminh City National University.

EMPLOYMENT

- August, 2021 - present: Associate professor, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China.
- September, 2019 - July, 2021: Assistant Professor, ShanghaiTech University, Shanghai, China.
- August, 2018 - August, 2019: Postdoctoral Fellow, New York University Abu Dhabi.
- September, 2016 - July, 2018: Junior research position, the Centro di Ricerca Matematica Ennio De Giorgi, the Scuola Normale Superiore di Pisa, Italy.
Postdoctoral advisor: Luigi Ambrosio
- December, 2014 - August, 2016: Postdoctoral fellow, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. Postdoctoral advisor: Hoai Minh Nguyen

RESEARCH INTERESTS

Partial Differential Equations.

55. Lingjia Huang, Quoc-Hung Nguyen and Yiran Xu, *Nonlinear Landau damping for the 2d Vlasov-Poisson system with massless electrons around Penrose-stable equilibria*, SIAM Journal on Mathematical Analysis, vol 57, 2, 1939-1963, 2025, <https://doi.org/10.1137/23M1595382>.
54. Quoc-Hung Nguyen, Simon Nowak, Yannick Sire, Marvin Weidner, *Potential theory for nonlocal drift-diffusion equations*, Arch Rational Mech Anal 248, 126 (2024). <https://doi.org/10.1007/s00205-024-02073-w>
53. Peter Constantin, Mihaela Ignatova, Quoc-Hung Nguyen, *Global regularity for critical SQG in bounded domains*, Comm. Pure Appl. Math. 24 July 2024 <https://doi.org/10.1002/cpa.22221>
52. P Lahti, Quoc-Hung Nguyen, *BMO-type functionals, total variation, and Γ -convergence*, Proceedings of the American Mathematical Society 152 (09), 3817-3830, 2024.
51. Ke Chen, Ruilin Hu, Quoc-Hung Nguyen, *Local well-posedness of the 1d compressible Navier-Stokes system with rough data*, Calculus of Variations and Partial Differential Equations 63 (2), 42, 2024.
50. Lingjia Huang, Quoc-Hung Nguyen and Yiran Xu, *Sharp estimates for screened Vlasov-Poisson system around Penrose-stable equilibria in \mathbb{R}^d , $d \geq 3$* , Kinetic and Related Models, 2024 doi: 10.3934/krm.2024015.
49. Quoc Anh Ngo, Quoc-Hung Nguyen, and Van Hoang Nguyen, *An optimal Hardy-Littlewood-Sobolev inequality on $\mathbf{R}^{n-k} \times \mathbf{R}^n$ and its consequences*, Journal d'Analyse Mathématique, [arXiv:2009.09868](https://arxiv.org/abs/2009.09868).
48. Ke Chen, Ly Kim Ha, Ruilin Hu, Quoc-Hung Nguyen, *Global well-posedness of the 1d compressible Navier-Stokes system with rough data*, J. Math. Pures Appl. (9) 179 (2023), 425–453.
47. Quoc-Hung Nguyen, Nguyen Cong Phuc, *Comparison estimate for singular p -Laplace equation and its consequences*, Arch. Ration. Mech. Anal. 247 (2023), no. 3, Paper No. 49, 24 pp.
46. Ke Chen and Quoc-Hung Nguyen, *The Peskin Problem with $B_{\infty,\infty}^1$ initial data*, SIAM Journal on Mathematical Analysis 2023, Vol.55,(6),6262-6304
45. Quoc-Hung Nguyen and Nguyen Cong Phuc, *Universal potential estimates for $1 < p \leq 2 - \frac{1}{n}$* . Mathematics in Engineering 5 (2023), no. 3, Paper No. 057, 24 pp.
44. Nhan-Phu Chung, Quoc-Hung Nguyen, *Gradient flows of modified Wasserstein distances and porous medium equations with nonlocal pressure*, Acta Math Vietnam (2023). <https://doi.org/10.1007/s40306-023-00497-2>
43. Ke Chen, Quoc-Hung Nguyen and Na Zhao, *Global Calderón-Zygmund theory for parabolic p -Laplacian system: the case $1 < p \leq \frac{2n}{n+2}$* , Journal of Functional Analysis, Volume 284, Issue 8, 15 April 2023, 109852

42. Quoc-Hung Nguyen, Yannick Sire, Le Xuan Truong; *Hölder continuity of solutions for a class of drift-diffusion equations*, Discrete and Continuous Dynamical Systems Vol. 43, No. 3-4, March/April 2023, pp. 1657–1685 doi:10.3934/dcds.2022119
41. Quoc-Hung Nguyen, Matthew Rosenzweig and Sylvia Serfaty, *Mean-field limits of Riesz-type singular flows with possible transport noise*, Ars Inveniendi Analytica (2022), Paper No. 4, 45 pp, DOI: <https://doi.org/10.15781/nvv7-jy87> arXiv:2107.02592.
40. Thomas Alazard, Quoc-Hung Nguyen, *Endpoint Sobolev theory for the Muskat equation*, Commun. Math. Phys. (2022). <https://doi.org/10.1007/s00220-022-04514-7>
39. Thomas Alazard, Quoc-Hung Nguyen, *Quasilinearization of the 3D Muskat equation, and applications to the critical Cauchy problem*, *Advances in Math*, Volume 399, 16 April 2022, 108278, <https://doi.org/10.1016/j.aim.2022.108278>
38. Ke Chen, Quoc-Hung Nguyen, and Yiran Xu, *The Muskat problem with C^1 data*, Trans. Amer. Math. Soc. 375 (2022), 3039-3060
37. Thomas Alazard, Omar Lazar and Quoc-Hung Nguyen, *On the dynamics of the roots of polynomials under differentiation*, *Journal de mathématiques pures et appliquées* (to appear), 162,1-22, 2022, <https://doi.org/10.1016/j.matpur.2022.04.001>,
36. Quoc-Hung Nguyen; *Potential estimates and quasilinear parabolic equations with measure data*, *Memoirs of the AMS*, (2023), 2023; Volume 291, Number 1449, ISBNs: 978-1-4704-6722-7 (print); 978-1-4704-7682-3 (online), DOI: <https://doi.org/10.1090/memo/1449>
35. Quoc-Hung Nguyen *Quantitative estimates for regular Lagrangian flows with BV vector fields*, (2021) *Comm. Pure Appl. Math.*, 74: 1129-1192. <https://doi.org/10.1002/cpa.21992>
34. Quoc-Hung Nguyen, Nguyen Cong Phuc; *Existence and regularity estimates for quasilinear equations with measure data: the case $1 < p \leq \frac{3n-2}{2n-1}$* , Vol. 15 (2022), No. 8, 1879–1895 *Analysis and PDEs* DOI: 10.2140/apde.2022.15.1879
33. E. Brué, Quoc-Hung Nguyen: *Advection diffusion equations with Sobolev velocity field*, Commun. Math. Phys. 383, 465–487 (2021), <https://doi.org/10.1007/s00220-021-03993-4>
32. Hoai-Minh Nguyen, Quoc-Hung Nguyen, *The Weyl law of transmission eigenvalues and the completeness of generalized transmission eigenfunctions* Journal of Functional Analysis, Volume 281, Issue 8, 2021, 109146.
31. Thomas Alazard, Quoc-Hung Nguyen, *On the Cauchy problem for the Muskat equation with non-Lipschitz initial data*, Communications in Partial Differential Equations, 2021 DOI: 10.1080/03605302.2021.1928700.

30. Thomas Alazard, Quoc-Hung Nguyen, *On the Cauchy problem for the Muskat equation. II: Critical initial data*, *Ann. PDE* 7, 7 (2021).
<https://doi.org/10.1007/s40818-021-00099-x>.
29. Quoc-Hung Nguyen, Yannick Sire, Juan-Luis Vázquez; *A simple proof of the generalized Leibniz rule on bounded Euclidean domains*, *Forum Mathematicum*, 2021, pp. 000010151520200228. <https://doi.org/10.1515/forum-2020-0228>
28. Le Trong Thanh Bui, Quoc-Hung Nguyen; *Gradient weighted norm inequalities for very weak solutions of linear parabolic equations with BMO coefficients*, *Asymptotic Analysis* (2021) 1–15, DOI 10.3233/ASY-211693.
27. Quoc-Hung Nguyen, Nguyen Cong Phuc; *Quasilinear Riccati type equations with oscillatory and singular data*, *Advanced Nonlinear Studies* (2020) Volume 20, Issue 2, Pages 373–384, <https://doi.org/10.1515/ans-2020-2079>.
26. E. Brué, Quoc-Hung Nguyen: *Sobolev estimates for solutions of the transport equation and ODE flows associated to non-Lipschitz drifts*, *Math. Ann.* (2020). <https://doi.org/10.1007/s00208-020-01988-5>
25. M.F. Bidaut-Veron, Quoc-Hung Nguyen, L. Veron; *Quasilinear elliptic equations with a source reaction term involving the function and its gradient and measure data*, *Calculus of Variations and Partial Differential Equations* 59, 148 (2020).
24. Nguyen-Anh Dao, Jesus Ildefonso Diaz, Quoc-Hung Nguyen, *Fractional Sobolev inequalities revisited: the maximal function approach*, *Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl.* Volume 31, Issue 1, 2020, pp. 225–236 DOI: 10.4171/RLM/887
23. E. Brué, Quoc-Hung : *Sharp regularity estimates for solutions to the continuity equation drifted by Sobolev vector fields*, *Analysis and PDEs* Vol. 14 (2021), No. 8, 2539–2559, DOI: 10.2140/apde.2021.14.2539
22. E. Brué, Quoc-Hung Nguyen: *On the Sobolev space of functions with derivative of logarithmic order*, *Adv. Nonlinear Anal.* 2020; 9: 836–849.
21. Quoc-Hung Nguyen, Nguyen Cong Phuc; *Pointwise estimate for gradient of solutions to quasilinear problem in singular case*, *Journal functional analysis*, (2020), **278** 108391.
20. Quoc-Hung Nguyen, Phuoc-Tai Nguyen, Bao Quoc Tang *Energy conservation for inhomogeneous incompressible and compressible Euler equations*, *Journal of Differential Equations*, Volume 269, Issue 9, 15 October 2020, Pages 7171–7210.
19. M.F. Bidaut-Veron, Quoc-Hung Nguyen, L. Veron; *Quasilinear and Hessian Lane-Emden Type Systems with Measure Data*, *Potential Analysis*, volume 52, pages 615–643(2020).
18. Quoc-Hung Nguyen, Phuoc-Tai Nguyen, Bao Quoc Tang *Energy equalities for compressible Navier-Stokes equations*, *Nonlinearity*, (2019), **23**.

17. E. Brué, Quoc-Hung Nguyen, Giorgio Stefani: *A maximal functiona characterization of absolutely continuous measures and sobolev functions*, *Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl.*, (2019), **30** 599–614.
16. Quoc-Hung Nguyen, Phuoc-Tai Nguyen; *Onsager’s conjecture on the energy conervation for solutions of Euler’s equation in bounded domains*, *Journal of nonlinear science*, (2018), **29** 207–213.
15. Quoc-Hung Nguyen, Nguyen Cong Phuc; *Good- λ and Muckenhoupt-Wheeden type bounds in quasilinear measure datum problems, with applications*, *Mathematische Annalen*, Math. Ann. 374, 67–98 (2019). <https://doi.org/10.1007/s00208-018-1744-2>
14. Nguyen-Anh Dao, Jesus Ildefonso Diaz, Quoc-Hung Nguyen, *Generalized Gagliardo-Nirenberg inequalities using Lorentz spaces and BMO* *Nonlinear Analysis: Theory, Methods, Applications.*, (2018), **173** 146-153.
13. Nguyen-Anh Dao, Quoc-Hung Nguyen *Brezis-Gallouet-Wainger type inequality with critical fractional Sobolev space and BMO*, *Comptes Rendus Mathematique*, (2018), **356** 747-756.
12. Quoc-Hung Nguyen, Juan Luis Vázquez; *Porous medium equation with non-local pressure in a bounded domain*, *Communications in Partial Differential Equations* , (2017), **43** 1502-1539.
11. Hoai-Minh Nguyen, Quoc-Hung Nguyen; *Discreteness of interior transmission eigenvalues revisited*, *Calculus of Variations and Partial Differential Equations*, (2017) 56: 51. doi:10.1007/s00526-017-1143-7.
10. Nguyen-Anh Dao, Quoc-Hung Nguyen; *Nonstationary Navier-Stokes equations with singular time dependent external forces*, *Comptes Rendus Mathematique*, (2017), **355**, 966-972.
9. M. F. Bidaut-Véron, Quoc-Hung Nguyen; *Pointwise estimates and existence of solutions of porous medium and p -Laplace evolution equations with absorption and measure data*, *di Scienze Ann. Sc. Norm. Super. Pisa Cl. Sci.* (5) **16** (2016), no. 2, 675-705. (arXiv:1407.2218).
8. Quoc-Hung Nguyen, L. Véron; *Wiener criteria for existence of large solutions of nonlinear parabolic equations with absorption in a non-cylindrical domain*, *Journal of Differential Equations*, **260**, 4805–4844 (2016).
7. M.F. Bidaut-Veron, Giang Hoang, Quoc-Hung Nguyen, L. Veron; *An elliptic semilinear equation with source term and boundary measure data*, *Journal of Functional Analysis* , **269**, 1995–2017 (2015).
6. Quoc-Hung Nguyen; *Global estimates for quasilinear parabolic equations on Reifenberg flat domains and its applications to Riccati type parabolic equations with distributional data*, *Calculus of Variations and Partial Differential Equations*, **54**, 3927-3948 (2015).

5. M. F. Bidaut-Véron, Quoc-Hung Nguyen; *Evolution equations of p -Laplace type with absorption or source terms and measure data*, [Communications in Contemporary Mathematics](#), **17**, 1550006, (2015).
4. M. F. Bidaut-Véron, Quoc-Hung Nguyen; *Stability properties for quasilinear parabolic equations with measure data*, [Journal of the European Mathematical Society](#), **17**, 2103–2135 (2015).
3. Quoc-Hung Nguyen, L. Véron; *Wiener criteria for existence of large solutions of quasilinear elliptic equations with absorption*, [Potential Analysis](#) **42**, 681-697 (2015).
2. Quoc-Hung Nguyen, L. Véron; *Quasilinear and Hessian type equations with exponential reaction and measure data*, [Archive for Rational Mechanics and Analysis](#) **214**, 235-267 (2014).
1. M. F. Bidaut-Véron, Quoc-Hung Nguyen, L. Véron; *Quasilinear Lane-Emden equations with absorption and measure data*, [Journal de mathématiques pures et appliquées](#) **102**, 315-337 (2014).

SUBMITTED PAPERS

57. Ke Chen, Ruilin Hu, Quoc-Hung Nguyen, *Well-posedness for local and nonlocal quasilinear evolution equations in fluids and geometry*, 184 pages, arXiv:2407.05313
56. Quoc-Hung Nguyen, Jihoon Ok, Kyeong Song, *Wolff potentials and nonlocal equations of Lane-Emden type*, arXiv:2405.11747

INVITED TALKS

- June 2012: poster, Quasilinear equations and singular problems: a conference of Fronts and Interfaces in Science and Technology, LMPT, Tours, France.
- November 2013: Analysis Seminar, EPFL, Lausanne, Switzerland.
- July 2015: Analysis seminar, Faculty of Mathematics and Computer Science, University of Science, Hochiminh City National University, VietNam.
- December 2015: Workshop on Regularity Theory on Elliptic and Parabolic Equations at Department of Mathematical Sciences, Seoul National University, Seoul, Korea.
- June 2016: Inverse problems, Control and Shape Optimization, Autrans, France.
- July 2017: Summer Meeting 2017, HCM, Vietnam
- Sep 2017: Nonlinear Days in Turin, Turin, Italy.
- Feb 2018: Workshop on Harmonic analysis and Nonlinear Evolution Equations, Pisa University, Pisa, Italy.
- April 2018: Analysis Seminar, Basel, Switzerland.
- May 2018: Analysis Seminar, Scuola Normale Superiore di Pisa, PISA, Italy
- March 2019: Colloquium, Shanghaitech university, Shanghai, China.

- November 2019: Analysis Seminar, the School of Mathematical Science of Fudan University, Shanghai.
- December 2019: Analysis Seminar, Scuola Normale Superiore di Pisa, Pisa, Italy.
- January, 2020: Analysis Seminar, Department of Mathematics, Louisiana State University, Louisiana, USA.
- January, 2020: Analysis of Fluids and Related Topics Seminar, Princeton University.
- February, 2020: CSCAMM Seminar, Maryland University, USA.
- February, 2020: Analysis Seminar, Department of Mathematics, John Hopkins University, USA.
- April, 2020: Analysis Seminar via Zoom, Department of Mathematics, University of Pennsylvania, USA.
- June, 2020: [Open PDE and Analysis Seminar](#), organized by Thomas Alazard (ENS Paris-Saclay), Nicolas Burq (Orsay) and Iván Moyano (Nice).
- August, 2020: [PDE and Analysis Seminar via Zoom](#), School of Mathematics, Korea Institute for Advanced Study (KIAS).
- November 8 -November 13, 2020: BIRS-IAS workshop: Nonlocal Problems in Mathematical Physics, Analysis and Geometry, Hangzhou, China (Cancelled)
- December 16th , 2020: [Geometry Seminar](#), Department of mathematics, University of California San Diego, USA.
- December 27th-29th, 2020: Invited speaker, [The International Consortium of Chinese Mathematicians](#), hosted by Yau Mathematical Sciences Center (YMSC) at Tsinghua University and School of Mathematical Sciences at University of Science and Technology of China.
- January 2021: Mini-Workshop on PDE in 2021, Shanghai.
- March 2021: [MSRI seminar of Mathematical problems in fluid dynamics](#).
- April 2021: [Brown PDE Seminar](#).
- April 2021: [PDE Seminar](#), University of Pennsylvania.
- April 2021: [USC Analysis and PDE seminar](#), University of Southern California.
- April 2021: Math Colloquium, NYU Abu Dhabi.
- May 2021: PDE and Applied Math seminar , University of California, Davis.
- May 2021: PDE seminar, CAS Academy of Mathematics and Systems Science, Beijing.
- June 17- 21, 2021: The 13th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Atlanta, USA (Cancelled).
- July, 2021: [PDE seminar](#), University of Regensburg, Germany.
- July, 2022: PDE seminar, School of Mathematical Sciences, Peking University, China.
- September, 2021: PDE seminar, Beijing International Center for Mathematical Research (BICMR), Peking University.
- October, 2021: PDE seminar, Duke Kunshan University, China.
- November, 2021: PDE seminar, Beijing Institute of Technology, School of Mathematics and Statistics.
- December 7–10, 2021: The 65th Annual Meeting of the Australian Mathematical Society, session on Harmonic Analysis and hyperbolic PDEs.
- February, 2022: Math Colloquium, Lanzhou University, China.

- February, 2022: Analysis and PDE Seminar, Department of Mathematics, University of Kentucky.
- March 14-18, 2022: mini-symposium on "Regularity and Irregularity in Fluid Dynamics" in the SIAM Conference on Analysis of Partial Differential Equations 2022, at Germany (moved online).
- June, 2022: Math Colloquium, Capital Normal University, China.
- June, 2022: PDE seminar, Wuhan Institute of Physics and Mathematics, China.
- June, 2022: PDE seminar, POSTECH, Korea.
- July, 2022: Math Colloquium, Shantou University, China.
- July, 2022: PDE seminar, The Chinese University of Hong Kong, China.
- September, 2022: PDE seminar, Shanghai jiao tong university, China.
- September, 2022: PDE seminar, School of Mathematical Sciences, Peking University, China.
- September, 2022: Webinar on stochastic analysis 2022, China.
- December, 2022: Séminaire Analyse Numérique et EDP, The Mathematics Laboratory of Orsay, Paris, France.
- December, 2022: The 70th Anniversary Celebration of the Institute of Mathematics, Chinese Academy of Sciences and the 2022 Work Summary Meeting.
- February 2023: PolyU-PDE Seminar, The Hong Kong Polytechnic University, HongKong.
- March, 2023: Analysis Seminar, Faculty of Mathematics and Computer Science, Vietnam National University-Ho Chi Minh City, Vietnam.
- March, 2023: Kinetic Seminar, Department of Mathematics, The Chinese University of Hong Kong.
- April, 2023: PDE Seminar, University of Science and Technology of China, Hefei.
- May, 2023: Online Analysis and PDE seminar, Southern University of Science and Technology.
- May, 2023: PDE seminar, East China Normal University.
- May, 2023: The 7th International Conference on Scientific Computing and Partial Differential Equations (SCPDE23), The Hong Kong Polytechnic University.
- June, 2023: PDE seminar, Department of mathematics, Jiangxi Normal University.
- June, 2023: PDE seminar, Beijing Normal University.
- June, 2023: Math Colloquium, University of Science and Technology Beijing.
- June, 2023: Lunch talk, CAS Academy of Mathematics and Systems Science, Beijing.
- June, 2023: Workshop on Recent Advances in PDEs (XIII), Shanghai Jiao Tong University.
- July, 2023: Conference on Regularity and Stability of Navier-Stokes Equation Tianyuan Mathematical Center, Kunming, Yunnan China.
- October 16-20, 2023: The Euro-Japanese Conference on Nonlinear Diffusion" ICMAT-UAM, Madrid, Spain.
- August 6 - 11, 2023: Online talk, Partial Differential Equations in Fluid Dynamics, the Institute for Advanced Study in Mathematics, Hangzhou, China.
- August 20-25, 2023: Online talk, The 10th International Congress on Indus-

trial and Applied Mathematics, Waseda University, Tokyo, Japan.

- September 15-20, 2024: onsite talk, Nonlocal Problems in Mathematical Physics, Analysis and Geometry, the Institute for Advanced Study in Mathematics, Hangzhou, China.
- Feb, 2024: Analysis of Fluids and Related Topics Seminar, Princeton University.
- March, 2024: Analysis Seminar, Courant, New York University.
- March, 2024: Analysis Seminar, Stony Brook University.
- March, 2024: PDE Seminar, Brown University.
- October, 2024: PDE Seminar, Universite Paris-Est Creteil.

SHORT
ACADEMIC
VISITS:

- April 2017: one week, EPFL, Lausanne, Switzerland. Host: Hoai-Minh Nguyen.
- April 2018: one week, University of Basel, Basel, Switzerland. Host: Crippa Gianluca.
- Fall 2018: one week, EPFL, Lausanne, Switzerland. Host: Hoai-Minh Nguyen.
- January 6-10, 2019: , EPFL, Lausanne, Switzerland. Host: Hoai-Minh Nguyen.
- June-July 2019: Scuola Normale Superiore di Pisa, PISA, Italy. Host: Luigi Ambrosio.
- December 16-20, 2019: Scuola Normale Superiore di Pisa, PISA, Italy. Host: Luigi Ambrosio.
- January 13- January 18, 2020: Department of Mathematics, Louisiana State University, Louisiana, USA, Host: Nguyen Cong Phuc.
- January 18- February 2, 2020: Institute for Advanced Study and Princeton, New Jersey, USA. Host: Camillo De Lellis.
- February 3 -February 8, 2020: Maryland University, College Park, Maryland, USA. Host: Pierre-Emmanuel Jabin.
- December 1st-December 22nd, 2022: Ecole Normale Supérieure de Paris, France. Host: Sylvia Serfaty.
- March 18th - March 31st, 2023: The Hong Kong Polytechnic University, Hongkong. Host: Tong Yang.
- February 18th - March 1st, 2024: Princeton University. Host: Peter Constantin.
- March 1st-March 15th, 2024: New York University. Host: Sylvia Serfaty.
- April 29th - May 11th, 2024: Mathematics Institute, LMU Munich, Germany. Host: Phan Thanh Nam.
- October 6th - October 31th, 2024: Sorbonne University, Paris, France. Host: Sylvia Serfaty.

SERVICE:

- September, 2019- June, 2021: Organized Analysis Seminar at the Institute of Mathematical Sciences, ShanghaiTech University.
- April, 2020- May, 2021: Organized PDE seminar via Zoom at ShanghaiTech University, every Thursday.
- May 1st-3rd, 2020: Organized IMS Lecture Series on Regularity Theory for Quasilinear Equations.
- June 1st-3rd, 2020: Organized Singular Problems Associated to Quasilinear

[Equations](#), a workshop in celebration of Marie-Francoise Bidaut-Véron and Laurent Véron's 70th Birthday.

- July 13th-14th, 2020: Organized [SGPDE workshop](#).
- January 11th, 2021: Organized Mini-Workshop on PDE in 2021.
- September, 2021- present: Organized onsite PDE Seminar at Academy of Mathematics and Systems Science, Chinese Academy of Sciences.
- October, 2021- present: Organized [PDE seminar via Zoom at Chinese Academy of Sciences](#), every Thursday.
- October, 2021- present: organized, [2022 WINTER MEETING ON PDES](#) , 11th to 13th February 2022.

TEACHING:

- Fall 2010 : Teaching Assistant for Analysis 1 at the department of Mathematics and Computer Science, University of Sciences, Hochiminh City National University, Vietnam.
- Spring 2016: Teaching Assistant for Analysis 4 at EPFL, Lausanne, Switzerland.
- May-August, 2020 : *Regularity Theory for Elliptic equations* for undergraduate of the Department of Mathematics, Hochiminh City University of Education, Ho Chi Minh City, Vietnam.
- Fall 2020 : *Fourier transform and its application* for undergraduate of the department of Mathematics and Computer Science, University of Sciences, Hochiminh City National University, Vietnam.
- Spring 2020: *An Introduction to Fourier Analysis* for undergraduate of ShanghaiTech university (Cancelled).
- March 2022: *Selected Lectures on Partial Differential Equations*, for Phd students at AMSS,CAS.
- December 2023: Mini-Course on *Harmonic analysis*, for Phd students at AMSS,CAS.

PROFESSIONAL SERVICE:

Referee for the journals: Advances in Mathematics, Journal of Differential Equations, Potential Analysis, Journal of Elliptic and Parabolic Equations, Communications in Contemporary Mathematics, Nonlinear analysis series A: Theory, Methods & Applications, Annali di Matematica Pura ed Applicata (1923 -), Differential and Integral Equations, Advances in Nonlinear Analysis, Discrete and Continuous Dynamical Systems, Mathematische Annalen, Nonlinear Differential Equations and Applications NoDEA, Proceedings of the London Mathematical Society, Discrete and Continuous Dynamical Systems, Proceeding of the Royal Society of Edinburgh, Advanced Nonlinear Studies, Nonlinearity, Journal of the European Mathematical Society, Archive for Rational Mechanics and Analysis, Communications in Mathematical Research, Calculus of Variations and Partial Differential Equations, Bulletin des sciences mathématiques, Applied Mathematics Letters, Zeitschrift fuer angewandte Mathematik und Physik, Transactions of the AMS, Manuscripta Mathematica, Revista Matemática Iberoamericana, the Annali della Scuola Normale Superiore di Pisa, CPAM.

GRANTS/AWARDS:

- the National Natural Science Foundation of China (12050410257): 400,000 RMB in 2 years from 2021 to 2023 and NSFC Fund's staff support: 200,000 RMB.
- CAS Project for Young Scientists in Basic Research: 15 M RMB (=2.1 M USD) in five years for 10 members.
- Startup fund of AMSS, CAS: 200,000 RMB per year.
- Startup fund of ShanghaiTech Univerisity: 900,000 RMB from 2019 to 2021.
- the National Natural Science Foundation of China (12050410257): 400,000 RMB in 2 years from 2021 to 2023 and NSFC Fund's staff support: 200,000 RMB.
- Award: Excellent Faculty of 2020, ShanghaiTech.

MENTORING:

Phd:

Zexi Wang (AMSS, CAS, 2025-2028)

Ke Chen (Female) and Xiran Xu (Female), Lingjia Huang (Female), co-advised with Professor Zhen Lei (Students are from Fudan University).

Ruilin Hu (AMSS, CAS) co-advised with Professor Ping Zhang.

Post Doc:

2019 - 2020: Nguyen Anh Dao. 2025 - 2027: Zhilong Xue.