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## CURRICULUM VITÆ

Born at Suresnes, France on July 8<sup>th</sup>, 1954. Citizenship: French.

**Current Position:** Retired. Formerly, Directeur de recherche, C.N.R.S. and Sorbonne Université, Paris, (until December 2020).

### Academic Degrees:

*June 1975:* “Maîtrise de Mathématiques”, Université Pierre et Marie Curie, Paris.

*June 1976:* “D.E.A. d’Analyse Numérique”, Université Pierre et Marie Curie, Paris.

*April 1978:* “Doctorat de 3e cycle”, Université Pierre et Marie Curie, Paris. Title: “Nonlinear Schrödinger Equations”. Advisor : H. Brezis.

*March 1984:* “Doctorat d’État”, Université Pierre et Marie Curie, Paris. Title: “Global properties of solutions of some nonlinear evolution equations”. Advisor: H. Brezis.

## RESEARCH INTERESTS

- Nonlinear dispersive equations (Schrödinger, wave, Dirac, ...)
- Nonlinear elliptic and parabolic problems
- Nonlinear wave equation on bounded domains (quasi-periodicity, recurrence, oscillatory properties, ...)

## EDITORIAL BOARDS

- Editorial board: *Communications in Contemporary Mathematics* (1998–2020)
- Editorial board: *Revista Matemática Complutense* (2004–2020)
- Editorial board: *Mathematics Applied in Science and Technology* (2006–2020)
- Editorial board: *Evolution Equations and Control Theory* (2012–2020)

## STUDENTS THESES SUPERVISED

- Ali Sili (1987), currently Assistant Professor at the Université de Toulon (France)
- José Manuel Gonçalves Ribeiro (1991), currently Professor at the Universidade de Évora (Portugal)
- Yvan Martel (1996), currently Professor at the École Polytechnique (France)
- Júlia Matos (1998), currently Assistant Professor at the Université d'Évry-val d'Essonne (France)
- Pascal Bégout (2001), currently Assistant Professor at the Université Toulouse I Capitole (France)
- Mickaël Chekroun (2009, co-supervised with Michael Ghil), currently Researcher at UCLA (USA)
- Jian Xie (2010, co-supervised with Daoyuan Fang), currently Assistant Professor at the Hangzhou Normal University (China)

## TEACHING

Since 1981, 46 graduate courses, at the Laboratoire Jacques-Louis Lions as well as in other places: Aracaju (Brazil), Bangalore (India), Blaubeuren (Germany), Bilbao (Spain), Bucharest (Romania), Campinas (Brazil), Craiova (Romania), Hangzhou (China), Istanbul (Turkey), New York (USA), Porto Novo (Benin), Rio de Janeiro (Brazil), Sevilla (Spain), Tehran (Iran).

## PUBLICATIONS

- [1] Baillon J.-B., Cazenave T. and Figueira M.: Équation de Schrödinger non linéaire. C. R. Acad. Sci. Paris Sér. I Math. **284** (1977), no. 15, 869–872. ([MR0433025](#))
- [2] Baillon J.-B., Cazenave T. and Figueira M.: Équation de Schrödinger avec non-linéarité intégrale. C. R. Acad. Sci. Paris Sér. I Math. **284** (1977), no. 16, 939–942. ([MR0433026](#))
- [3] Cazenave T.: Équations de Schrödinger non-linéaires. Thèse de 3<sup>o</sup> Cycle, Université Pierre et Marie Curie, Paris, 1978.
- [4] Cazenave T.: Équations de Schrödinger non linéaires en dimension deux. Proc. Royal Soc. Edinburgh Sect. A **84** (1979), no. 3-4, 327–346. ([MR559676](#)) (doi: [10.1017/S0308210500017182](#))
- [5] Cazenave T.: A remark on Schrödinger's equation with a short range potential. Portugal. Math. **38** (1979), no. 1-2, 39–43. ([MR682354](#)) (link: <http://purl.pt/2877/1/>)
- [6] Cazenave T. and Haraux A.: Équation de Schrödinger avec non-linéarité logarithmique. C. R. Acad. Sci. Paris Sér. I Math. **288** (1979), no. 9, 253–256. ([MR524786](#))
- [7] Cazenave T. and Haraux A.: Équation d'évolution avec non-linéarité logarithmique. Ann Fac. Sci. Toulouse Math. **2** (1980), no. 1, 21–51. ([583902](#)) (link: [http://www.numdam.org/item?id=AFST\\_1980\\_5\\_2\\_1\\_21\\_0](http://www.numdam.org/item?id=AFST_1980_5_2_1_21_0))
- [8] Berestycki H. and Cazenave T.: Instabilité des états stationnaires dans les équations de Schrödinger et de Klein-Gordon non linéaires. C. R. Acad. Sci. Paris Sér. I Math. **293** (1981), no. 9, 489–492. ([MR646873](#))
- [9] Cazenave T. and Lions P.-L.: Orbital stability of standing waves for some nonlinear Schrödinger equations. Comm. Math. Phys. **85** (1982), no. 4, 549–561. ([MR0677997](#)) (doi: [10.1007/BF01403504](#))
- [10] Cazenave T., Dias J.P. and Figueira M.: A remark on the decay of the solutions of some Schrödinger equations. Rend. Sem. Mat. Univ. Polit. Torino **40** (1982), no. 1, 129–137. ([MR706058](#))
- [11] Cazenave T.: Stable solutions of the logarithmic Schrödinger equation. Nonlinear Anal. **7** (1983), no. 10, 1127–1140. ([MR0719365](#)) (doi: [10.1016/0362-546X\(83\)90022-6](#))
- [12] Cazenave T.: Stability and instability of stationary states in nonlinear Schrödinger equations. In *Contributions to nonlinear partial differential equations*, C. Bardos, A. Damlamian,

- J.I. Díaz and J. Hernández (eds.), *Research Notes in Math.* **89**, Pitman, London, 1983, 123–129. ([MR730802](#))
- [13] Berestycki H. and Cazenave T.: Instability of stationary states in nonlinear Schrödinger and Klein-Gordon equations. *Publication du Laboratoire d'Analyse Numérique* **84001**, Université Pierre et Marie Curie, Paris, 1984.
- [14] Cazenave T. and Lions P.-L.: Solutions globales d'équations de la chaleur semi linéaires. *Comm. Partial Differential Equations* **9** (1984), no. 10, 955–978. ([MR0755928](#)) (doi: [10.1080/03605308408820353](#))
- [15] Cazenave T.: Propriétés globales des solutions de quelques équations d'évolution non-linéaires. Thèse d'État, Université Pierre et Marie Curie, Paris, 1984.
- [16] Cazenave T. and Haraux A.: Propriétés oscillatoires des solutions de certaines équations des ondes semi-linéaires, *C. R. Acad. Sci. Paris Sér. I Math.* **298** (1984), no. 18, 449–452. ([MR750743](#))
- [17] Cazenave T.: Uniform estimates for solutions of nonlinear Klein-Gordon equations. *J. Funct. Anal.* **60** (1985), no. 1, 36–55. ([MR0780103](#)) (doi: [10.1016/0022-1236\(85\)90057-6](#))
- [18] Cazenave T.: Some remarks on the asymptotic behaviour of solutions to nonlinear Schrödinger equations. In *Bielefeld encounters in mathematics and physics IV and V, trends and developments in the eighties*, S. Albeverio and Ph. Blanchard (eds.), World Scientific, Singapore, 1985, 116–129. ([MR853745](#))
- [19] Cazenave T. and Haraux A.: Équations d'évolution non-linéaires: théorie élémentaire et propriétés globales. *Publication du Laboratoire d'Analyse Numérique* **85026**, Université Pierre et Marie Curie, Paris, 1985.
- [20] Cazenave T. and Haraux A.: On the nature of free oscillations associated with some semilinear wave equations. In *Nonlinear partial differential equations and their applications, College de France seminar, vol 7*, *Research Notes in Math.* **122**, Pitman, London, 1985, 59–79. ([MR879457](#))
- [21] Cazenave T. and Vázquez L.: Existence of localized solutions for a nonlinear classical Dirac field. *Comm. Math. Phys.* **105** (1986), no. 1, 35–47. ([847126](#)) (doi: [10.1007/BF01212340](#))
- [22] Cazenave T.: Stationary states of nonlinear Dirac equations. In *Semigroups, Theory and Applications, Vol I*, H. Brezis, M.G. Crandall and F. Kappel (eds.), Pitman Res. Notes in Math. Ser. **141**, Longman, Harlow, 1986, 36–42. ([MR876926](#))
- [23] Cazenave T.: Nonlinear Dirac equations: existence of stationary states. In *Contributions to Nonlinear Partial Differential Equations, Vol. II*, J.I. Díaz and P.-L. Lions (eds.), Pitman Res. Notes in Math. Ser. **155**, Longman, Harlow, 1987, 69–78. ([MR907722](#))
- [24] Cazenave T. and Haraux A.: Oscillatory phenomena associated to semilinear wave equations in one spatial dimension. *Trans. Amer. Math. Soc.* **300** (1987), no. 1, 207–233. ([MR0871673](#)) (doi: [10.1090/S0002-9947-1987-0871673-2](#))
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- [77] Cazenave T.: *An introduction to semilinear elliptic equations*. Editora do IM-UFRJ, Rio de Janeiro, 2006. ix+193 pp. ISBN: 85-87674-13-7. 2nd Ed. 2018, ISBN: 978-85-87674-31-9. (link: <http://www.im.ufrj.br/index.php/pt/estrutura/e-books-im/1129-an-introduction-to-semilinear-elliptic-equations>)
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