

### Positions

- 1 nov 2023– **Associate professor**, University of Pavia  
now
- 1 nov 2020– **Assistant professor (RTD-b)**, University of Pavia  
31 oct 2023
- 10 dec 2018– **Assistant professor (RTD-a)**, University of Trento  
31 oct 2020
- 1 Sep 2018– 9 **Postdoctoral fellow**, University of Pavia  
dec 2018 Supervisor: Prof. Elisabetta Rocca.
- 1 Sep 2016– **Postdoctoral fellow**, Sapienza University of Roma  
31 Aug 2018
- 1 Dec 2015– **Postdoctoral fellow**, University of Pavia  
31 Aug 2016 Supervisor: Prof. Giuseppe Savaré.

### Education

- Gen 2022– **National Scientific Habilitation - Associate Professor**
- Gen. 2031 Abilitazione Scientifica Nazionale: seconda fascia.  
Settore Concorsuale 01–A3: analisi matematica, probabilità e statistica matematica
- Dec. 2012– **PhD student in Mathematics**, University of Pavia  
Nov. 2015 Thesis title: *Maximum principle for optimal control of stochastic dissipative systems*.  
Advisor: Prof. Marco Fuhrman.
- 2011–2012 **Executive Course**, MIP, Politecnico di Milano  
Advanced training course in Quantitative Finance.  
Scholarship provided by Unicredit Group.
- 2009–2011 **M.Sc. in Mathematics**, University of Milano,  
Grade: *summa cum laude*  
Thesis title: *Caratterizzazioni di Varietà di Fano di coindice dato in termini di invarianti numerici*.  
Advisor: Prof. Antonio Lanteri.
- 2006–2009 **Bc. in Mathematics**, University of Milano-Bicocca,  
Grade: *summa cum laude*  
Thesis title: *Teoria di Morse*.  
Advisor: Dott. Alessandro Ghigi.
- 2001–2006 **Scientific high school diploma**, ISIS Giulio Natta,  
Grade: 100/100

### Other Experience

- Feb–July 2012 **Quantitative Analyst**, Unicredit Global Information Services, Milano  
Training Period.
- Sep–Dec. 2011 **Mathematics Teacher**, Secondary School G. Donizzetti, Bergamo

### Research Interests

- Interacting Particle Systems.
- Large Deviations.
- Stochastic PDEs
- (Stochastic) Optimal Control

### Talks and Seminars

- 18–20 Sept 2024 Invited seminar: “TBA” *Large scale behaviour of interacting diffusions*, to be held in Padova.

- 1-5 Jul 2024 Invited seminar: "TBA" *SPDE below sea level*, to be held in Delft.
- 12-16 Feb 2024 Invited seminar: "Uniqueness by noise for some singular SPDEs" *Stochastic Partial Differential Equations*, to be held in ESI, Vienna.
- 06 Oct 2023 Invited seminar: "Uniqueness by noise for (some) singular SPDEs" *Three talks on weak and strong uniqueness for SPDEs*, Como.
- 19 May 2023 Invited seminar: "Wasserstein stability of porous medium equation on Riemannian manifolds" *Variational and PDE problems in Geometric Analysis, IV*, Bologna.
- 23 May 2022 Invited seminar: "Random separation property for a class of stochastic Allen-Cahn equations" *Phase-field methods in applied science*, Rome.
- 16 Nov 2021 Invited seminar: "Lagrangian, Eulerian and Kantorovich formulations of controlled interacting particles" *Schrödinger Problem and Mean-field PDE Systems*, CIRM, Luminy.
- 6 Jul 2021 Invited seminar: "Gamma-convergence and Large Deviations for some interacting particle systems" *Seminars of Applied Mathematics, University of Pavia, (online)*
- 16 Jun 2021 Invited seminar: "Large Deviations for some interacting particle systems" *Oberseminar of Applied Mathematics, University of Münster, (online)*
- 19 Jun 2020 Invited seminar: "Gamma-convergence and Large Deviations for some interacting particle systems" *Oberseminar Stochastics, University of Bonn, (online)*
- 4 Jun 2020 Invited seminar: "Topics in PDEs: a probability point of view" *Math bites Trento, (online)*
- 25 Nov 2019 Invited short course: "Optimal Transport. A (very) short intro" Hacking day of math for data science, *Trento*.
- 20 Nov 2019 Invited seminar: "A variational approach to the planning problem" *University of Vienna*.
- Sep 2019 Contributed talk: "Lagrangian, Eulerian and Kantorovich formulations of multi-agents systems" *Mean Field Games and Related Topics, Levico Terme*.
- 17 June 2019 Invited seminar: "Some optimal control problems for non-local random systems" *Second Italian Meeting on Probability and Statistics, Vietri*.
- 10 May 2019 invited Seminar: "Optimal control of a stochastic tumor growth model" *Recent advances in Phase-Field modeling, Pavia*.
- 27 Mar 2019 invited Seminar: "Random phase field models" *MACH Indam, Roma*.
- 4 mar 2019 invited Seminar: "Entropic optimal transport and mean field planning " *Università di Padova*.
- 6 Feb 2019 invited Seminar: "Entropic optimal transport and mean field planning " *ICMC summer meeting on differential equations, São Carlos, Brasil*.
- 16 Jan 2019 invited Seminar: "Entropic optimal transport and mean field planning " *Stochastic PDEs and Mean-Field Games, Bologna*.
- 4 Nov 2018 Invited Seminar: "Optimal control of interacting agents" *LUISS, Roma*.
- 4 July 2018 Seminar: "Optimal control and large deviations for interacting particle systems" *Two days workshop on Large scale random structures (PRIN), Padova*.
- 20 may 2018 Invited Seminar: "Singular stochastic Allen-Cahn equations with dynamic boundary conditions" *Special Materials and Complex Systems, Gargnano*.
- 10 Apr 2018 Invited Seminar: "Controlled interacting particle systems" *Università di Trento*.
- 15 Feb 2018 Contributed talk: "Mean field planning problem: a variational approach" *XXVIII Convegno Nazionale di Calcolo delle Variazioni, Levico Terme*.
- 30 Gen 2018 Invited Seminar: "A variational approach to the mean field planning problem" *Università di Pisa*.
- 21 Nov 2017 Invited Seminar: "A variational approach to the mean field planning problem" *Politecnico di Milano*.
- 7 Sept 2017 Contributed talk: "Variational mean field planning problem" *XVII italiano meeting on Hyperbolic Equations, Pavia*.
- 18 May 2017 Invited Seminar: "Limit theory for controlled Vlasov-type dynamic" *Insubria University, Como*.
- 7 April 2017 Invited Seminar: "Mean field limit for controlled Vlasov dynamic" *Optimal transport and PDEs in applied sciences, GSSI, L'aquila*.
- 22 Nov 2016 Invited Seminar: "Controlled Vlasov-type dynamics", Sapienza Università di Roma.
- 21 Nov 2016 Invited Seminar: "A variational approach to mean field games", Sapienza università di Roma.
- 1 June 2016 Invited short seminar: "Stochastic maximum principle for SPDEs with delay" *Stochastic Partial Differential Equations and Applications, Levico Terme*.
- 26 Oct 2015 Invited Seminar: "Ergodic maximum principle for infinite dimensional stochastic systems" *Academy of sciences of Czech Republic, Prague*.
- 19 Oct 2015 Invited Seminar: "Necessary conditions for stochastic optimal control" *Insubria University, Como*.

- 28 Sept 2015 Contributed talk: "Necessary conditions for optimal ergodic stochastic control problems" *Stochastic Analysis with applications*, Levico Terme.
- 6 July 2015 Contributed talk: "Some results in stochastic control for dissipative systems" *45ème école d'été de probabilités*, Saint-Flour.
- 4 May 2015 Invited Seminar: "Stochastic maximum principle for dissipative systems on infinite horizon" *University of Milano-Bicocca*, Milano.
- 13 Apr 2015 Invited Seminar: "Necessary conditions for optimal control of Stochastic PDEs with dissipative drift" *Lions-Magenes Days*, Pavia.
- 7-11 July 2014 Contributed talk: "Stochastic maximum principle for a class of non-linear SPDEs in Banach spaces" *2nd Barcelona summer school on stochastic analysis*, Barcelona.

## Short invited visits

- '19 - '23 **Sapienza università di Roma**. Profs. L. Bertini and G. Basile (often)
- Nov '19 & Feb '20 **University of Vienna**. Prof. U. Stefanelli and L. Scarpa
- '18-'19 **Università di Pavia**. Prof. Giuseppe Savaré (often)
- Mar '18 **National Research University HSE**, Moscow. Prof. M. Mariani
- Mar '17 **TUM**, Monaco. Prof. M. Fornasier
- July '16 **IST Austria**, Vienna. Prof. J. Maas
- Oct '15 **Charles University**, Prague. Prof. B. Maslowski

## Fellowships and Grants

- 2024 GNAMPA 2024 research project "*Fluidodinamica stocastica*", P.I. M. Coghi
- 2023 GNAMPA 2023 research project "*Equazioni differenziali stocastiche e operatori di Kolmogorov in dimensione infinita*", P.I. D.A. Bignamini
- 2023 PRIN 2022 project "*Noise in fluid dynamics and related models*", P.I. F. Flandoli
- 2022 GNAMPA 2022 research project "*Analisi qualitativa PDE stocastiche: ergodicità ed equazioni Kolmogorov*", P.I. L. Scarpa
- 2020 GNAMPA 2019 research project "*Sistemi con interazione spaziale: convergenza, controllo e applicazioni*", P.I. G. Zanco
- 2019 Principal Investigator of GNAMPA 2018 research project "*Trasporto ottimo per dinamiche con interazione*"
- Sep. '18 A 1 year postdoc fellowship at Università degli studi di Pavia, Italy.
- 2017 GNAMPA 2017 research project "*Equazioni di evoluzione con diffusione e interazione*", P.I. S. Lisini
- 2016-2018 PRIN 2015 project "*Large scale random structure*", P.I. F. Martinelli
- Sept. '16 A 2 year postdoc fellowship at Sapienza Università di Roma, Italy.
- 2016 PRIN 2010-2011 project "*Calculus of variations*", P.I. G. Dal Maso
- Dec. '15 A 1 year postdoc fellowship at Università degli studi di Pavia, Italy.
- 2013-2015 PRIN 2010-2011 project "*Evolution differential problems: deterministic and stochastic approaches and their interactions*", P.I. M. Fuhrman
- 2015- 2016 GNAMPA 2015 research project "*Processi markoviani in spazi non commutativi*", P.I. R. Carbone
- 2014- 2015 GNAMPA 2014 research project "*Semigruppi markoviani su algebre non commutative*", P.I. R. Carbone
- 2013- 2014 GNAMPA 2013 research project "*Evoluzioni quantistiche markoviane*", P.I. R. Carbone
- 2011 Scholarship from *Unicredit Group* to attend the Executive course on Quantitative Finance, MIP.

## Organization activity

- From Apr. '21 Seminar series: *Pavia-Milano Seminar on Probability & Mathematical Statistics - (PMS)<sup>2</sup>*, joint with M. Maurelli, M. Rossi and M. Zanella,  
<https://paviamilanoseminars.wordpress.com>
- 10-14 Jun '24 Session: *Kolmogorov equations and long time behaviour for SPDEs*  
joint with L. Scarpa,  
Third Italian Meeting on Probability and Mathematical Statistics, to be held in Roma.  
<https://probabilityrome2024.it/>

- 5–7 Sep '22 Workshop: *Interacting Particle systems and Applications*  
 joint with M. Coghi, M. Maurelli, G. Zanco,  
 University of Trento.  
<https://sites.google.com/view/ipsa2022/home>
- 13-16 Jun '22 Session: *Regularisation by noise and Kolmogorov equations*  
 joint with L. Scarpa,  
 Third Italian Meeting on Probability and Mathematical Statistics, Bologna.  
<https://site.unibo.it/probstat/en>
- 12-14 Febr. School: *Primer on data science*  
 '20 joint with C. Agostinelli and S. Bonaccorsi,  
 University of Trento.  
<http://datascience.maths.unitn.it/events/pds2020/index.html>
- 17-20 Jun '19 Session: *Stochastic systems with interaction*  
 joint with L. Scarpa,  
 Second Italian Meeting on Probability and Mathematical Statistics, Vietri sul mare.  
<http://www.salerno2019.dipmat.unisa.it/>
- 19-21 Sep '18 Workshop: *Optimal control and Mean Field Games*  
 joint with G. Cavagnari, S. Lisini, G. Savaré,  
 University of Pavia  
[https://sites.google.com/view/controlpv2018.](https://sites.google.com/view/controlpv2018)

## Master thesis supervision

- A.Y. '22-'23 M. M. Ghisolfi;  
 S. N. Paicu.
- A.Y. '21-'22 L.M. Strambini.
- A.Y. '20-'21 A. Mannolini (joint with L.A. Bianchi, University of Trento);  
 L. Roveri (joint with M. Coghi, TU Berlin);  
 F. Mascari (joint with G. Conforti, CMAP École Polytechnique).
- A.Y. '19-'20 F. Bertacco (joint with L. Scarpa, University of Wien) [“Premio Con.Scienze” award for the MSc thesis];  
 L. Galvagni (joint with L. Scarpa, University of Wien);  
 A. Marcon, (joint with M. Coghi, TU Berlin).
- A.Y. '16-'17 F. Marrone (joint with I. Birindelli, Sapienza University of Roma)

## Bachelor thesis supervision

- A.Y. '22-'23 L. Rolando,  
 M. I. Cagnola, co-supervision (supervisor: D. Simon, Sorbonne Université, Paris)
- A.Y. '21-'22 G. Adobati,  
 S. Pincioli.

## Service

- A.Y. '19 – '20 Member of PhD board, faculty of mathematics, University of Trento (ciclo di dottorato XXXV).  
 Referee for Electron. J. Probab.;  
 SIAM J. Control Optim.;  
 SIAM J. Math. Anal.;  
 J. Differential Equations;  
 Annali SNS;  
 ESAIM Control Optim. Calc. Var.;  
 Stoch. Partial Differ. Equ.: Anal. Comput.;  
 Nonlinear Analysis;  
 Potential Analysis;  
 Appl. Math. Optim.;  
 Manuscripta Math.;  
 Discrete Contin. Dyn. Syst. (S);  
 J. Math. Anal. Appl.;  
 Math. Methods Appl. Sci.;  
 J. Dyn. Control Syst.;

## Teaching

- A.Y. '23-'24 Master course: *Processi stocastici*, faculty of Mathematics, Pavia.
- A.Y. '23-'24 Bachelor course: *Statistica*, faculty of Biotechnology, Pavia.
- A.Y. '23-'24 Bachelor course: *Elementi di probabilità* (with E. Dolera), faculty of Mathematics, Pavia.
- A.Y. '22-'23 Bachelor course: *Statistica*, faculty of Biotechnology, Pavia.
- A.Y. '22-'23 Bachelor course: *Elementi di probabilità* (with E. Dolera), faculty of Mathematics, Pavia.
- A.Y. '21-'22 Bachelor course: *Statistica*, faculty of Biotechnology, Pavia.
- A.Y. '21-'22 Bachelor course: *Elementi di probabilità* (with E. Dolera), faculty of Mathematics, Pavia.
- A.Y. '20-'21 Master course: *Processi stocastici*, faculty of Mathematics, Pavia.
- A.Y. '20-'21 Bachelor course: *Elementi di probabilità* (with E. Dolera), faculty of Mathematics, Pavia.
- A.Y. '19-'20 PhD and Master course: *Stochastic differential equations*, faculty of Mathematics, Trento.
- A.Y. '19-'20 Master course: *Stochastic processes* (with S. Mazzucchi), faculty of Mathematics, Trento.
- A.Y. '19-'20 Seminar: *Passeggiate aleatorie e l'equazione del calore*, faculty of Mathematics (percorso eccellenza), Trento.
- A.Y. '18-'19 Master course: *Stochastic differential equations*, faculty of Mathematics, Trento.
- A.Y. '18-'19 Exercises lectures: *Advanced Mathematical Methods for Engineers*, Faculty of Engineering, Pavia.
- A.Y. '18-'19 Exercises lectures: *Analisi 1*, Faculty of Engineering, Pavia.
- A.Y. '17-'18 Exercises lectures: *Advanced Mathematical Methods for Engineers*, Faculty of Engineering, Pavia.
- A.Y. '16-'17 Exercises lectures: *Advanced Mathematical Methods for Engineers*, Faculty of Engineering, Pavia
- A.Y. '15-'16 Exercises lectures: *Matematica 3*, Faculty of Materials science, University of Milano-Bicocca
- A.Y. '14-'15 Exercises lectures: *Complementi di Analisi Matematica e Statistica*, Faculty of Engineering, Pavia
- A.Y. '13-'14 Exercises lectures: *Complementi di Analisi Matematica e Statistica*, Faculty of Engineering, Pavia

## Participation to schools/workshops

- 18-19 May '23 Workshop "Variational and PDE problems in Geometric Analysis, IV", Bologna.
- 27-31 Mar '23 Workshop "Scaling limits and generalized hydrodynamics", GSSI, online partecipation.
- 11-12 July '22 Workshop "Contemporary Trends in Kinetic Theory & PDEs", Pavia.
- 13-16 June '22 Workshop "Third Italian Meeting on Probability and Mathematical Statistics", Bologna.
- 23-27 May '22 INdAM Workshop "Phase field methods in applied sciences", Roma.
- 15-19 Nov '21 CIRM Workshop "Schrödinger Problem and Mean-field PDE Systems", Luminy, Marseille.
- 3-7 Feb '20 Workshop "XXX Convegno Nazionale di Calcolo delle Variazioni", Levico Terme.
- 9-13 Sept '19 Workshop "Mean Field Games and Related Topics", Levico Terme.
- 17-20 June '19 Workshop "Second Italian Meeting on Probability and Mathematical Statistics", Vietri.
- 10-14 June '19 CIME school on "Mean field games", Cetraro.
- 8-10 May '19 Workshop "Recent advances in Phase-Field modeling: from Engineering to Biology", Roma.
- 25-29 Feb '19 Workshop "Indam MACH 2019", Roma.
- 4-6 Feb '19 Conference "ICMC summer meeting on differential equations", São Carlos, Brasil.
- 14-16 Jan '19 Winter school on "Stochastic PDEs and Mean Field Games", Bologna.
- 23-27 Jul '18 RISM school on "Developments in Stochastic Partial Differential Equations, in honour of G. Da Prato", Varese.
- 4-5 July '18 PRIN workshop "Two days workshop on Large scale random structures", Padova.
- 18-22 May '18 Conference "Special Materials and Complex Systems", Gargnano.
- 12-16 Feb '18 Workshop "XXVIII Convegno Nazionale di Calcolo delle Variazioni", Levico Terme.
- 6-8 Sept '17 XVII italian meeting on "Hyperbolic Equations", Pavia.
- 26-30 June '17 CIME-CIRM School "New trends on analysis and geometry in metric spaces", Levico Terme.
- 14-16 June '17 Conference "Mean field games and related topics", to be held in Roma.
- 6-7 Apr '17 Mini Workshop "Optimal transport and PDEs in applied sciences", GSSI L'Aquila.
- 3-5 Apr '17 CIRM School "Stochastic Dynamics out of Equilibrium", Lumini.
- 6-10 Feb '17 Workshop "XXVII Convegno Nazionale di Calcolo delle Variazioni", Levico Terme.
- 29-4 Feb '17 MFO Workshop 'Applications of Optimal Transportation in the Natural Sciences', Oberwolfach.
- 28-02 Dic '16 Indam Workshop "PDE models for multi-agent phenomena", Roma.
- 7-11 Nov '16 Workshop "Optimal Transport and Applications", SNS, Pisa.
- 5-9 Sept '16 INdAM Workshop "Trends on Applications of Mathematics to Mechanics ", Roma.
- 22-26 Aug '16 CIME-EMS Summer school in applied mathematics "Singular Random Dynamics", Cetraro.
- 29-3 June '16 10<sup>th</sup> International Meeting on "Stochastic Partial Differential Equations and Applications", Levico Terme.

- 17-19 Feb '16 Winter school on "Stochastic Homogenization", Augsburg.
- 9-11 Dec '15 Course on "Martingale optimal transport", Università di Pisa.
- 28-2 Oct '15 Summer school "Stochastic Analysis with applications", Levico Terme.
- 6-17 July '15 Summer school "45ème école d'été de probabilités" Saint-Flour.
- 2-6 Jan '15 Bicocca winter school "Recent Breakthroughs in Singular Stochastic PDEs" University of Milano-Bicocca, Milano.
- 15-19 Dec '14 MFO Workshop "Variational methods for evolution" Oberwolfach.
- 27-31 Oct '14 ERC Workshop "Optimal transportation and applications" Scuola Normale Superiore, Pisa.
- 6-10 Oct '14 IHP minicourse "Rough Paths". Geometry, Analysis and Dynamics on Sub-Riemannian Manifolds, Trimester Institut Henri Poincaré, Paris.
- 22-25 Sept '14 CRM School "Singular Stochastic PDEs", Scuola Normale Superiore, Pisa.
- 1-5 Sept '14 CIRM School "Sub-Riemannian manifolds: from geodesics to hypoelliptic diffusion", Luminy, Marseille.
- 7-11 July '14 CRM School "2nd Barcelona summer school on stochastic analysis", Barcelona.
- 9-13 June '14 ERC School "Analysis and Geometry on Singular Spaces" Scuola Normale Superiore, Pisa.
- 12-16 May '14 CIMI Course "Stochastic Differential Geometry", Tolouse.
- 6-11 Jan '14 9<sup>th</sup> International Meeting on "Stochastic Partial Differential Equations and Applications", Levico Terme.
- 22-24 May '13 Workshop "Backward Stochastic Differential Equations" Centre Henri Lebesgue, Rennes.

## Languages

**Italian** Native language, **English** Fluent, **French** Basic

## Preprints

1. F. Bertacco, C. Orrieri and L. Scarpa  
*Weak uniqueness by noise for singular stochastic PDEs.*  
Submitted. url: <https://arxiv.org/abs/2308.01642>

## Published papers

16. C. Orrieri and L. Scarpa  
*A note on regularity and separation for the stochastic Allen-Cahn equation with logarithmic potential.*  
Discrete Contin. Dyn. Syst. (S), 16(12) (2023) 3837-3851.
15. N. De Ponti, M. Muratori and C. Orrieri  
*Wasserstein stability of porous medium-type equations on manifolds with Ricci curvature bounded below.*  
Journal of Functional Analysis. 283(9) (2022) 109661
14. F. Bertacco, C. Orrieri and L. Scarpa  
*Random separation property for stochastic Allen-Cahn-type equations.*  
Electron. J. of Probab. 27 (2022), 95, 1-32
13. G. Cavagnari, S. Lisini, C. Orrieri and G. Savaré  
*Lagrangian, Eulerian and Kantorovich formulations of multi-agent optimal control problems: equivalence and Gamma-convergence.*  
Journal of Differential Equations, 322 (2022) 268-364.
12. G. Basile, D. Benedetto, L. Bertini and C. Orrieri  
*Large deviations for Kac-like walks.*  
Journal of Statistical Physics, 184 10 (2021).
11. F. Masiero, C. Orrieri, G. Tessitore and G. Zanco  
*Semilinear Kolmogorov equations on the space of continuous functions via BSDEs.*  
Stochastic Processes and their Applications 136 (2021) 1-56.
10. C. Orrieri  
*Large deviations for interacting particle systems: joint mean-field and small-noise limit.*  
Electron. J. Probab. 25 (2020), 111, 44 pp.
9. C. Orrieri, E. Rocca and L. Scarpa  
*Optimal control of stochastic phase-field models related to tumor growth.*  
ESAIM: Control Optim. Calc. Var. 26 (2020) 104, 46pp.
8. C. Orrieri, A. Porretta and G. Savaré  
*A variational approach to the mean field planning problem.*  
Journal of Functional Analysis. 277 (2019) 1868-1957.

7. M. Fornasier, S. Lisini, C. Orrieri and G. Savaré  
*Mean-field optimal control as Gamma-limit of finite agent controls.*  
European Journal of Applied Mathematics. 30 (2019) 1153-1186.
6. C. Orrieri and L. Scarpa  
*Singular Stochastic Allen-Cahn equations with dynamic boundary conditions.*  
Journal of Differential Equations. 266 (2019) 4624-4667.
5. C. Orrieri, G. Tessitore and P. Veverka  
*Ergodic maximum principle for stochastic systems.*  
Applied Mathematics and Optimization. 79 (2019) 567-591.
4. G. Guatteri, F. Masiero and C. Orrieri  
*Stochastic maximum principle for SPDEs with delay.*  
Stochastic Processes and their Applications, 127 (2017) 2396-2427.
3. C. Orrieri and P. Veverka  
*Necessary stochastic maximum principle for dissipative systems on infinite time horizon.*  
ESAIM: Control Optim. Calc. Var., 23 (2017) 337-371.
2. M. Fuhrman and C. Orrieri  
*Stochastic maximum principle for optimal control of a class of non-linear SPDEs with dissipative drift.*  
SIAM Journal on Control and Optimization, 54 (2016) 341-371.
1. C. Orrieri  
*A stochastic maximum principle with dissipativity conditions.*  
Discrete Contin. Dyn. Syst (A), 35 (2015) 5499-5519.