

## CURRICULUM ANTONIO MARIGONDA

### Dati personali

Nome e cognome Antonio Marigonda  
Afferenza Università di Verona - Dipartimento di Informatica

### Titoli di studio

1996--2000 Laurea in Matematica Pura ed Applicata (ord. quadriennale), Università di Padova  
2001--2005 Dottorato di Ricerca in Matematica, Università di Padova

### Interessi scientifici

- Analisi nonsmooth
- Teoria geometrica della misura
- Teoria del controllo e Ottimizzazione
- Soluzioni di viscosità per equazioni di Hamilton--Jacobi
- Teoria del trasporto ottimo
- Sistemi multiagente

### Esperienze lavorative

Posizioni di ricerca

<i>Inizio</i>	<i>Fine</i>	<i>Qualifica</i>
01/02/06	30/07/06	Collaboratore alla ricerca presso il Dipartimento di Matematica, Università "La Sapienza", Roma.
01/08/06	21/12/08	Postdoc presso il Dipartimento di Matematica, Università di Pavia
22/12/08	30/09/19	Ricercatore presso il Dipartimento di Informatica, Università di Verona
01/10/19 - in corso		Professore di II Fascia SSD MAT/05 Analisi Matematica presso il Dipartimento di Informatica, Università di Verona

### Pubblicazioni

Pubblicazioni su rivista

- Marigonda, A., Nguyen, K.T.; A system of first order Hamilton--Jacobi equations related to an optimal debt management problem; 2022; Nonlinear Differential Equations and Applications
- Averboukh, Y., Marigonda, A., Quincampoix, M.; Extremal Shift Rule and Viability Property for Mean Field-Type Control Systems; 2021; Journal of Optimization Theory and Applications
- Cavagnari, G., Marigonda, A., Quincampoix, M.; Compatibility of state constraints and dynamics for multiagent control systems; 2021; Journal of Evolution Equations; 21; 4
- Calvo, J., Marigonda, A., Orlandi, G.; Anisotropic tempered diffusion equations; 2020; Nonlinear Analysis, Theory, Methods and Applications; 199
- Cavagnari, G., Marigonda, A.; ATTAINABILITY PROPERTY for A PROBABILISTIC TARGET in WASSERSTEIN SPACES; 2020; Discrete and Continuous Dynamical Systems- Series A; 41; 2
- Cavagnari, G., Marigonda, A., Piccoli, B.; Generalized dynamic programming principle and sparse mean-field control problems; 2020; Journal of Mathematical Analysis and Applications; 481; 1
- Jimenez, C., Marigonda, A., Quincampoix, M.; Optimal control of multiagent systems in the Wasserstein space; 2020; Calculus of Variations and Partial Differential Equations; 59; 2
- Cavagnari, G., Marigonda, A.; Measure-theoretic lie brackets for nonsmooth vector fields; 2018; Discrete and Continuous Dynamical Systems - Series S; 11; 5

- Cavagnari, G., Marigonda, A., Nguyen, K.T., Priuli, F.S.; Generalized Control Systems in the Space of Probability Measures; 2018; Set-Valued and Variational Analysis; 26; 3
- Cavagnari, G., Marigonda, A., Piccoli, B.; Averaged time-optimal control problem in the space of positive Borel measures; 2018; ESAIM - Control, Optimisation and Calculus of Variations; 24; 2
- Marigonda, A., Quincampoix, M.; Mayer control problem with probabilistic uncertainty on initial positions; 2018; Journal of Differential Equations; 264; 5
- Bressan, A., Marigonda, A., Nguyen, K.T., Palladino, M.; A stochastic model of optimal debt management and bankruptcy; 2017; SIAM Journal on Financial Mathematics; 8; 1
- Cavagnari, G., Marigonda, A., Piccoli, B.; Optimal synchronization problem for a multi-agent system; 2017; Networks and Heterogeneous Media; 12; 2
- Le Thuy, T.T., Marigonda, A.; Small-time local attainability for a class of control systems with state constraints; 2017; ESAIM - Control, Optimisation and Calculus of Variations; 23; 3
- Cannarsa, P., Marigonda, A., Nguyen, K.T.; Optimality conditions and regularity results for time optimal control problems with differential inclusions; 2015; Journal of Mathematical Analysis and Applications; 427; 1
- Marigonda, A., Rigo, S.; Controllability of some nonlinear systems with drift via generalized curvature properties; 2015; SIAM Journal on Control and Optimization; 53; 1
- Colombo, G., Marigonda, A., Wolenski, P.R.; The Clarke generalized gradient for functions whose epigraph has positive reach; 2013; Mathematics of Operations Research; 38; 3
- Marigonda, A., Nguyen, K.T., Vittone, D.; Some regularity results for a class of upper semicontinuous functions; 2013; Indiana University Mathematics Journal; 62; 1
- Daducci, A., Marigonda, A., Orlandi, G., Posenato, R.; Neuronal fiber tracking via optimal mass transportation; 2012; Communications on Pure and Applied Analysis; 11; 5
- Marigonda, A., Siconolfi, A.; Metric formulae for nonconvex Hamilton-Jacobi equations and applications; 2011; Advances in Differential Equations; 16; 7-8
- Auricchio, F., Bonetti, E., Marigonda, A.; A metric approach to plasticity via Hamilton-Jacobi equation; 2010; Mathematical Models and Methods in Applied Sciences; 20; 9
- Lisini, S., Marigonda, A.; On a class of modified Wasserstein distances induced by concave mobility functions defined on bounded intervals; 2010; Manuscripta Mathematica; 133; 1
- Colombo, G., Marigonda, A.; Singularities for a class of non-convex sets and functions, and viscosity solutions of some Hamilton-Jacobi equations; 2008; Journal of Convex Analysis; 15; 1
- Marigonda, A.; Proprietà differenziali per una classe di funzioni non Lipschitziane ed applicazioni; 2007; Bollettino della Unione Matematica Italiana A; 10
- Colombo, G., Marigonda, A.; Differentiability properties for a class of non-convex functions; 2006; Calculus of Variations and Partial Differential Equations; 25; 1
- Colombo, G., Marigonda, A., Wolenski, P.R.; Some new regularity properties for the minimal time function; 2006; SIAM Journal on Control and Optimization; 44; 6
- Marigonda, A.; Second order conditions for the controllability of nonlinear systems with drift; 2006; Communications on Pure and Applied Analysis; 5; 4
- Cardin, F., Marigonda, A.; Global world functions; 2004; Journal of Geometry and Symmetry in Physics; 2

#### Contributi in atti di convegno

- Capuani, R., Marigonda, A.; Constrained Mean Field Games Equilibria as Fixed Point of Random Lifting of Set-Valued Maps; 2022; IFAC-PapersOnLine; 55; 30
- Capuani, R., Marigonda, A., Mogentale, M.; Random Lifting of Set-Valued Maps; 2022; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 13127 LNCS
- Cavagnari, G., Marigonda, A., Piccoli, B.; Superposition principle for differential inclusions; 2018; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 10665 LNCS
- Boriero, F., Sansonetto, N., Marigonda, A., Muradore, R., Fiorini, P.; Optimal Solution of Kinodynamic Motion Planning for the Cart-Pole System; 2017; IFAC-PapersOnLine; 50; 1
- Cavagnari, G., Marigonda, A., Orlandi, G.; Hamilton-Jacobi-Bellman equation for a time-optimal control problem in the space of probability measures; 2016; IFIP Advances in Information and Communication Technology; 494
- Cavagnari, G., Marigonda, A.; Time-optimal control problem in the space of probability measures; 2015; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 9374
- Marigonda, A., Le, T.T.; Sufficient conditions for small time local attainability for a class of control systems; 2015; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 9374

- Marigonda, A., Nguyen, K.T., Vittone, D.; BV regularity and differentiability properties of a class of upper semicontinuous functions; 2014; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 8353 LNCS
- Marigonda, A., Orlandi, G.; Optimal mass transportation-based models for neuronal fibers; 2012; Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); 7116 LNCS
- Marigonda, A.; Comparison between some nonsmooth and geometric measure theory concepts; 2005; Nonlinear Analysis, Theory, Methods and Applications; 63; 5-7
- Marigonda, A.; Second order controllability conditions for the controllability of control systems with drift; 2005; Proceedings of Science

**Trattamento dati personali**

Si autorizza all'utilizzo dei dati personali ai sensi del D. lgs. 196/03.

**Ultimo aggiornamento**

Ultimo aggiornamento del 06/09/2023.

**Dichiarazione sostitutiva di certificazione (artt. 46-47 DPR 445/00)**

Il sottoscritto Antonio Marigonda, nato a [redacted] il [redacted] del [redacted] del [redacted] anno, consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445 del 28 dicembre 2000 dichiara di essere in possesso di tutti i titoli riportati nel presente curriculum vitae e che tutto quanto in esso dichiarato corrisponde a verità.