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 Decreto Rettore Università di Roma "La Sapienza" n. 2509/2019 del
07/08/2019

VITO CRISMALE

Curriculum Vitae "ai fini della pubblicazione"

Place: PALAISEAU Date: 09/10/2019

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Part I - General Information

Full Name Vito Crismale

Birthdate 15/07/1988

Birthplace Bari, Italy

Citizenship Italian

Part II - Education

- 10/12-09/16 PhD in Applied Mathematics, SISSA Trieste (Italy), cum laude
 Title of the thesis: Some results on quasistatic evolution problems for unidirectional processes
 Advisors: Prof. G. Dal Maso and Dr. G. Lazzaroni
 External referees: Prof. A. Mielke (WIAS Berlin) and Prof. U. Stefanelli (University of Vienna)
- 10/10-05/12 M.Sc. in Mathematics (Laurea Magistrale in Matematica), Università degli Studi di Bari Aldo Moro, Bari (Italy), Curriculum in Pure Mathematics, 110/110 cum laude Title of the thesis: Variational methods and soliton-type solutions for some field equations Advisors: Prof. D. Fortunato and Prof. L. Pisani Field: Nonlinear Analysis
 - August 11 Summer Courses Perugia 2011, Scuola Matematica Interuniversitaria (SMI), Functional Analysis (graduation mark A/A), Differential Equations in Mathematical Physics (graduation mark A/A)
- 10/07-07/10 B.Sc. in Mathematics (Laurea Triennale in Matematica), Università degli Studi di Bari Aldo Moro, Bari (Italy), Curriculum in Pure Mathematics, 110/110 cum laude Title of the thesis: On set-theoretic complete intersections Advisor: Prof. M. Barile Field: Commutative Algebra

Part III - Academic appointments

- 10/18-09/20 **Standard European Fellow Marie Skłodowska-Curie**, reference laboratory CMAP, École Polytechnique Palaiseau, Post-Doc
- 10/16-09/18 Individual fellow FMJH, program *Mathématiques Ingénierie*, Fondation Mathématique Jacques Hadamard, reference laboratory CMAP, École Polytechnique Palaiseau, Post-Doc
- $10/12\text{-}09/16\,$ Doctoral scholarship, SISSA Trieste, PhD student

Part IV - Teaching experience

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- 03/19-04/19 Practical excercises TP, Algorithmes d'Optimisation, 3rd year of BSc in Mathématiques et Interactions, et Double Licence, Université Paris Sud / Paris Saclay, Orsay, France (14h, French)
- 09/18-01/19 Course, exercise theoretical (TD) and numerical (TP), Équations Différentielles Ordinaires, 3rd year of BSc in Mathematics et Interactions, Université Paris Sud / Paris Saclay, Orsay, France (52,5 h, French)
- 09/17-01/18 Teaching assistant (TD) of the course *Mathématiques et Calcul*, 1st year of BSc in Mathematics, Université Paris 5 Descartes (72h, French)
 - 09-10/17 Teaching assistant (TD) of the course *Linear Algebra and Optimisation*, 1st year of MSc Data Science for Business, École Polytechnique and HEC Paris (12h, English)

Part V - Awards and honors (including seminars as invited speaker in congresses)

- 2011 Eligible for INdAM National scholarship for Master Students in Mathematics, 13th classified in Italy, Istituto Nazionale di Alta Matematica "F. Severi" (INdAM)
- 2007-2010 INdAM National scholarship for Bachelor Students in Mathematics for the year 2007-2008, maintained by merit for the following two years, Istituto Nazionale di Alta Matematica "F. Severi" (INdAM)
 - 2010 Honorable mention for best graduate in Mathematics, Università degli Studi di Bari Aldo Moro, Bari
 - 2017 Qualification aux fonctions de Maître de Conférences, Sections 25 et 26 Qualification for Assistant Professor in France in Pure and Applied Mathematics, 2016

Invited speaker in the following congresses:

- 19/11/19 Workshop Recent Advances in Mechanics and Mathematics of Materials, Rome
- 07/10/19 Journée de Rentrée du CMAP, École Polytechnique Palaiseau, France
- 15/09/19 XXIV Congress of AIMETA-Associazione Italiana di Meccanica Teorica e Applicata-Italian Association of Mechanics, Rome
- 03/09/19 XV Congress COMPLAS-Conference on Computational Plasticity, Barcelone, Spain -Invited section Theory of Fracture, Crack propagation Criteria, and Crack Tracking Algorithms, Organizers: Anna Pandolfi, Michael Ortiz
- 03/03/19 Workshop Phase-Field Models of Fracture, BIRS, Banff, Canada
- 05/02/19 XXVI Congresso Nazionale di Calcolo delle Variazioni, Levico Terme (TN), Italy
- 03/09/18 Meeting on Applied Mathematics and Calculus of Variations, University La Sapienza, Rome, Italy
- 21/03/18 GAMM 89th Annual Scientific Conference, Münich, Germany Young Researchers' Mini Symposium YR5 Variational Aspects of Multiscale Modelling in Materials Science
- 05/09/17 XXIII Congress of AIMETA-Associazione Italiana di Meccanica Teorica e Applicata-Italian Association of Mechanics, Salerno, Italy - Mini Symposium 8
- 14/02/17 Miniworkshop on dislocations, plasticity, and fracture, SISSA, Trieste, Italy
- 21/07/16 7th European Congress of Mathematics, Berlin, Germany Mini Symposium 16

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- 04/07/16 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando (FL), USA Special Session 68
- 20/01/16 XXVI Congresso Nazionale di Calcolo delle Variazioni, Levico Terme (TN), Italy

Part VI - Funding Information

- 10/18-09/20 Title: BriCoFra, New ideas for the Variational Approach to Brittle and Cohesive Fracture, Program: H2020-MSCA-IF-2017, Action MSCA-IF-EF-ST (Standard EF), Project n.793018, Grant value: 173076 €, Principal Investigator (individual grant)
- 10/16-09/18 Title: Evolutionary models for elastoplasticity coupled with damage Program: Investissement d'avenir project, reference ANR-11-LABX-0056-LMH, LabEx LMH Grant value: **70000** €, Principal Investigator (individual grant)
 - 2016 Title: Multiscale analysis of complex systems with variational methods
 Program: INdAM-GNAMPA Project 2016
 Grant value: 3200 €, Investigator (8 persons in total, coordinator Dr. G. Lazzaroni)

Part VII - Research Activities

Organisation of events

- 2019 Organisation, together with F. Iurlano and G. Orlando, of the Workshop Calculus of Variations and Applications in Trani, 28-31 October 2019, Trani (BT), Italy
- 2018 Organisation, together with G. Lazzaroni, of 2 minisimposia at Congresso Nazionale 2018 SIMAI-Società Italiana di Matematica Applicata e Industriale, 02-06 July 2018 Rome, Italy

Research visits

- 09-12/12/18 University of Münster, Germany, invited by Prof. M. Friedrich
- 22-28/11/18 University of Pavia, Italy, invited by Prof. M. G. Mora
- 02-05/05/18 CMAF Lisbon, Portugal, invited by Prof. N. van Goethem
- 22-31/01/18 TUM München, Germany, invited by Prof. M. Cicalese
- 25-28/09/17 University of Brescia, Italy, invited by Prof. R. Rossi
- 06-10/03/17 University La Sapienza of Rome, Italy, invited by Prof. A. Garroni and Dr. R. Alessi

Other invited talks

- 26/02/19 Séminaire Modélisation, Analyse et Calcul de l'Institut de Mathématiques de Toulouse, France
- 10/01/19 University of Brescia, Italy
- 27/11/18 University of Pavia, Italy
- 05/11/18 University of Naples, Italy
- 09/10/18 Séminaire de l'équipe ACSIOM, IMAG Montpellier, France

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- 03/07/18 Congresso SIMAI, minisymposium 28, Rome, Italy
- 02/05/18 Seminar Analysis and differential equations, CMAF, Lisbon, Portugal
- 06/02/18 Séminaire de l'équipe EDP IECL, Nancy, France
- 25/01/18 Münich-Augsburg Analysis Oberseminar TUM, Münich, Germany
- 18/01/18 Séminaire de l'équipe Analyse Numérique et EDP Université Paris Sud, Orsay, France
- 26/09/17 University of Brescia, Italy
- 06/03/17 University La Sapienza, Rome, Italy
- 30/01/17 Seminar for the GdT Calcul des Variations University of Paris-Dauphine, France
- 26/10/15 Analysis Junior Seminars, SISSA, Trieste, Italy
- 03/09/15 Mathematical Colloquium, University of Bari, Italy

Editorial activity

- Referee reviewer for Math. Models Methods Appl. Sci. (M3AS), Zeit. Angew. Math. Mech. (ZAMM), Math. Modelling Numer. Anal. (M2AN)
- Reviewer for Mathematical Reviews/MathSciNet

Participation to congresses/schools (besides invited talk events, main ones)

- 29-31/10/18 Workshop New developments in PDEs and related topics, Università di Napoli, Naples
- 15-16/06/17 Workshop for G. Francfort's 60th birthday From Solid Mechanics to Mathematical Analysis, IHP Paris
 - 2014-2017 Italian Congress on Calculus of Variations, *Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, (TN), Italy (Every year for one week in February, 4 editions)
 - 2015-2018 Summer schools and meetings at University *La Sapienza*, Rome, organised by A. Garroni et al. (Every year for one week in June or September, 4 editions)
- 25-28/10/16 Workshop Geometric Measure Theory, Shape Optimisation, and Free Boundaries, SISSA, Trieste
- 19-23/09/16 Conference A Mathematical Tribute to Ennio De Giorgi on the occasion of the vigintennial of Ennio De Giorgi's departure, SNS, Pisa
 - 02-05/15 Intensive Trimester Variational Models for Plasticity and Dislocations, SISSA, Trieste
- 10-14/02/14 Winter school on Calculus of Variations in Physics and Materials Science, Würzburg, Germany

Part VIII - Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Published Papers	10	SCOPUS (9) + WoS (1)	2016	2019
Papers accepted for publications	2		2018	2019
Papers in (minor) revision	2		2019	2019
Papers submitted	2		2019	2019

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Total Impact Factor over Published Papers:	15.925
Total Impact Factor over Published + Accepted Papers:	19.035
Mean Impact Factor over Published Papers:	1.5925
Mean Impact Factor over Published + Accepted Papers:	1.58625

The Impact Factor is that provided from the database Journal Citation Reports of the Clarivate Analytics (cf. also the public databases https://apps.clarivate.com/mjl-beta/journal-profile, https://scijournal.org/, and informations on journals web sites)

Total citations (published papers):	72
Average Citations per Product (published papers):	7.2
Hirsch (H) index:	5
Normalized H index:	1.666

The academic seniority has been calculated equal to 3 following the indications for *numero di anni di attività accademica* in the Call.

Part IX - Selected Publications

- V. Crismale, Globally stable quasistatic evolution for a coupled elastoplastic-damage model, ESAIM Control Optim. Calc. Var. 22, 883-912 (2016), Journal IF: 1.540, Citations (SCOPUS): 15
- [2] V. Crismale, G. Lazzaroni, Viscous approximation of quasistatic evolutions for a coupled elastoplasticdamage model, Calc. Var. Partial Differ. Equ. 55 : Art. 17 (2016), Journal IF: 1.532, Citations (SCOPUS): 20
- [3] V. Crismale, Globally stable quasistatic evolutions for strain gradient plasticity coupled with damage, Ann. Mat. Pura Appl. 196, 641-685 (2017), Journal IF: 1.066, Citations (SCOPUS): 9
- [4] V. Crismale, G. Lazzaroni, Quasistatic crack growth based on viscous approximation: a model with branching and kinking, Nonl. Diff. Eqns. Appl. (NoDEA) 24 : Art. 7 (2017), Journal IF: 1.048, Citations (SCOPUS): 3
- [5] V. Crismale, G. Lazzaroni, G. Orlando, Cohesive fracture with irreversibility: quasistatic evolution for a model subject to fatigue, Math. Models Methods Appl. Sci. (M3AS), 28, 1371-1412 (2018), Journal IF: 3.127, Citations (SCOPUS): 10
- [6] V. Crismale, G. Orlando, A Reshetnyak-type lower semicontinuity result for linearised elasto-plasticity coupled with damage in W^{1,n}, Nonl. Diff. Eqns. Appl. (NoDEA) 25 : Art. 16 (2018), Journal IF: 1.067, Citations (SCOPUS): 5
- [7] A. Chambolle, V. Crismale, A density result in GSBD^p with applications to the approximation of brittle fracture energies, Arch. Ration. Mech. Anal. 232, 1329-1378 (2019), Journal IF: 2.186, Citations (SCOPUS): 9
- [8] A. Chambolle, V. Crismale, Compactness and lower semicontinuity in GSBD, Accepted for publication on J. Eur. Math. Soc. (JEMS), https://www.ems-ph.org/journals/forthcoming.php?jrn=jems,
 Journal IF: 1.78, Citations: N.A.
- [9] V. Crismale, On the approximation of SBD functions and some applications, Accepted for publication on SIAM J. Math. Anal., Journal IF: 1.334, Citations: N.A.

- [10] R. Alessi, V. Crismale, G. Orlando, Fatigue effects in elastic materials with variational damage models: A vanishing viscosity approach, J. Nonlinear Sci. 29, 1041-1094 (2019), Journal IF: 2.017, Citations (SCOPUS): 0
- [11] V. Crismale, Density in SBD and approximation of fracture energies, Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl. 30, 533-542 (2019), Journal IF: 0.69, Citations (WoS): 0
- [12] A. Chambolle, V. Crismale, Existence of strong solutions to the Dirichlet problem for the Griffith energy, Calc. Var. Partial Differ. Equ. 58: Art. 136 (2019), Journal IF: 1.652, Citations (WoS): 1

Part X - Other Publications

- [13] A. Chambolle, V. Crismale, *Phase-field approximation of some fracture energies*, In revision with minor modifications requested on Adv. Calc. Var.
- [14] V. Crismale, G. Orlando, A lower semicontinuity result for linearised elasto-plasticity coupled with damage in $W^{1,\gamma}$, $\gamma > 1$, In revision with minor modifications requested on Mathematics in Engineering
- [15] V. Crismale, R. Rossi, Balanced viscosity solutions to a rate-independent coupled elasto-plastic damage system, Preprint arXiv 1910.03692 (2019), Submitted
- [16] V. Crismale, M. Friedrich, Equilibrium configurations for epitaxially strained films and material voids in three-dimensional linear elasticity, Preprint arXiv 1910.03845 (2019), Submitted

