



UNIVERSITÀ DEGLI STUDI DELL'AQUILA

Prof. Alessandro Ciallella

Curriculum scientifico

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PERSONAL INFORMATIONS

First Name: Alessandro

Last Name: Ciallella

Address: Viavia Giovanni Gronchi 18, 67100, L'Aquila, Italy,

Scopus Author ID: 57201689800

EDUCATION

2018 - Ph.D. in PhD in Mathematical Models for Engineering, Electromagnetics and Nanosciences, Sapienza University of Rome, Italy

2014 - Master of Science in Mathematics (with honors), Sapienza University of Rome, Italy.

2011 - Bachelor of Science in Mathematics, Sapienza University of Rome, Italy.

POSITION

2019 - present Research fellow (RTDa), SSD ICAR/08, DICEAA, University of L'Aquila, Italy

2018 - 2019 Post-Doc Researcher, Sapienza University of Rome, Italy.

2014 - 2018 Ph.D. student, Sapienza University of Rome, Italy.

PUBLICATIONS

- Ciallella A., Pulvirenti M., Simonella S. (in press). Kinetic SIR equations and particle limits. *ATTI DELLA ACCADEMIA NAZIONALE DEI LINCEI. RENDICONTI LINCEI. MATEMATICA E APPLICAZIONI*, (2021);
- Giorgio I., Ciallella A., Scerrato D. A study about the impact of the topological arrangement of fibers on fiber reinforced composites: Some guidelines aiming at the development of new ultra stiff and ultra soft metamaterials. *INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES*, vol. 203, p. 73 83, (2020);
- Laudato M., Ciallella A. Perspectives in Generalized Continua. In: Editors: B. E. Abali I. Giorgio. *Advanced Structured Materials. ADVANCED STRUCTURED MATERIALS*, vol. 132, p. 1 13, book chapter, (2020);
- Ciallella A. Research perspective on multiphysics and multiscale materials: a paradigmatic case. *CONTINUUM MECHANICS AND THERMODYNAMICS*, 32, 527 539, Editorial (2020);
- Javanbakht M., Ghaedi M. S., Barchiesi E., Ciallella A. The effect of a pre existing nanovoid on martensite formation and interface propagation: a phase field study. *MATHEMATICS AND MECHANICS OF SOLIDS* Volume: 26 issue: 1, page(s): 90 109 (2020);

- Ciallella A. , Cirillo E. N. M. , Conditional expectation of the duration of the classical gambler problem with defects, Eur. Phys. J. Spec. Top. 228 : 111 128 (2019);
- Ciallella A. , Cirillo E. N. M. , Linear Boltzmann dynamics in a strip with large reflective obstacles: stationary state and residence time, Kinetic & Related Models 11 (6) pp. 1475 1501 (2018);
- Ciallella A. , Cirillo E. N. M. , Curseu P. L. , Muntean A., Free to move or trapped in your group: Mathematical modelling of information overload and coordination in crowded populations, Mathematical Models and Methods in Applied Sciences , 28 , 1831 1856 (2018).
- Ciallella A. , Cirillo E. N. M. , Sohier J. , Residence time of symmetric random walkers in a strip with large reflective obstacles, Physical Review E , 97 , 052116 (2018);
- Ciallella A., On the linear Boltzmann transport equation: a Monte Carlo algorithm for stationary solutions and residence times in presence of obstacles, pp.952 960, Conference Proceedings, Aimeta 2017 , Salerno (2017).

TEACHING EXPERIENCE

Lecturer for the course *Mathematical Method for Risk Analysis*

, with Prof. M.Giuli, DICEAA Università dell'Aquila, A.Y. 2020/21

Lecturer for the course *Fondamenti di Geometria e Abilità informatiche* DICEAA, Università dell'Aquila A.Y. 2020/21

Lecturer for the course *Analisi Matematica 2*,

with Prof. F. Leonetti and Prof. M. Palombaro, DICEAA, Università dell'Aquila A.Y. 2019/20

Lecturer for the course *Laboratorio di Meccanica Razionale*

, Faculty of Civil Engineering, Sapienza University of Rome (Latina), A.Y. 2018/19

Lecturer for the course *Probabilità e Statistica*,

with Prof. B. Vantaggi, Faculty of Civil Engineering, Sapienza University of Rome, A.Y. 2018/19

Tutor for the course *Probabilità e Statistica* Mathworks Project:

Modellizzazione e risoluzione di problemi tramite l'uso del software di calcolo Matlab & Simulink

, Faculty of Civil Engineering, Sapienza University of Rome, A.Y. 2018/19

Lecturer for the course *Mathematics*

in preparatory courses for Bachelor's students, Faculty of Information Engineering, Informatics, and Statistics, Sapienza University of Rome, A.Y. 2018/19

Tutor for the course *Meccanica Razionale*

, Faculty of Civil Engineering, Sapienza University of Rome, A.Y. 2017/18

Tutor for the course *Analisi I*, Faculty of Civil Engineering, Sapienza University of Rome, A.Y. 2017/18

Lecturer for the course *Mathematics*

in preparatory courses for Bachelor's students, Faculty of Civil Engineering, Sapienza University of Rome, A.Y. 2016/17 - 2017/18

Tutor for the course *Analisi II*,

Faculty of Information Engineering, Informatics, and Statistics, Sapienza University of Rome, A.Y. 2015/16 - 2016/17 - 2017/18