

**Programma della Giornata dei Giovani IAC  
10 Dicembre 2020**

- **9.30 opening**
- **9.45 Caterina Balzotti**  
**Title:** A computational modular approach to evaluate NOx emissions and ozone production due to vehicular traffic  
**Referente:** Maya Briani
- **10.10 Elishan Braun**  
**Title:** Approximation and Parameter Estimation of a Chemotaxis MultiDomain Transmission Model for Microfluid Chips with Real Data  
**Referenti:** Gabriella Bretti, Daniela Mansutti, Roberto Natalini
- **10.35 Eugenio Del Prete**  
**Title:** Development of tools for omic data analysis  
**Referente:** Claudia Angelini
- **11.00 break**
- **11.20 Fabio Durastante**  
**Title:** (Sparse) Linear Algebra at the Extreme Scales  
**Referente:** Pasqua D'Ambra
- **11.45 Angela Martiradonna**  
**Title:** Soil Organic Carbon turnover models for Land Degradation Neutrality  
**Referente:** Fasma Diele, Carmela Marangi
- **12.10 Marta Menci**  
**Title:** Collective motions: mathematical models and simulations  
**Referente:** Emiliano Cristiani
- **12.35 Marco Mingione**  
**Title:** Efficient estimation of temporal Gaussian processes models for physical activity level in a large-scale population study  
**Referente:** Massimo Bernaschi
- **13.00 pausa pranzo**
- **14.05 Nicole Roselli (dottoranda)**  
**Title:** Modeling ATP-Mediated Endothelial Cell Elongation on Line Patterns  
**Referenti:** Gabriella Bretti, Roberto Natalini, Giuseppe Pontrelli
- **14.30 Giorgia Ciavolella**  
**Title:** Existence of a global weak solution for a reaction-diffusion problem with membrane conditions  
**Referente:** Roberto Natalini

- **14.55 Andrea Montessori**  
**Title:** Wet to dry self-transitions in soft flowing crystals  
**Referente:** Marco Lauricella
  
- **15.20 Elia Onofri**  
**Title:** ML-based Algorithms and Models for Analysing Heterogeneous Data  
**Referenti:** Castiglione, Cristiani, Lombardi, Pedicini
  
- **15.45 break**
  
- **16.05 Dario Pasquini**  
**Title:** Password Security meets Deep Learning: On a new generation of attacks and defenses  
**Referente:** Massimo Bernaschi
  
- **16.30 Valeria Policastro**  
**Title:** Robustness In Network and Data Integration  
**Referenti:** Claudia Angelini, Annamaria Carissimo
  
- **16.55 Paola Stolfi**  
**Title:** Multi-level modelling: from risk of type-2 diabetes to spread of antibiotic resistance  
**Referente:** Filippo Castiglione
  
- **17.20 chiusura dei lavori e saluti**

**Organizzato da:**

CNR - Istituto per le Applicazioni del Calcolo “Mauro Picone”

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