

# CV Giuseppe Mulone

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## General Info

- Name: **Giuseppe Mulone**
- Date and place of birth: October 15<sup>th</sup>, 1951, Canicattì (AG) - Italy
- Address: Viale Riccardo Wagner 16, 92024 Acireale (CT) - Italy
- E-mail: giuseppe.mulone@unict.it
- Home Page: <http://www.dmi.unict.it/~mulone/>
- Nationality: Italian

## Education

- Master (Degree) *in Mathematics, summa cum laude*, University of Catania, July 11<sup>th</sup>, 1973.

## Distinctions, Awards:

2008: Elected Member of the Accademia Zelantea di Acireale

2015: Elected Member of the Accademia Peloritana dei Pericolanti di Messina

2014: Elected Member of the Accademia Gioienia di Catania

2017: Member of the Executive Committee of ISIMM.

## Google Scholar Citations

<https://scholar.google.it/citations?user=i85f6agAAAAJ>

## Positions

- **C.N.R. Grant in Mathematical Physics** at Seminario Matematico of Catania University, October 1<sup>st</sup>, 1973 – October 31<sup>st</sup>, 1974
- Winner of a competition for a “**Contratto quadriennale di Ricerca**” of Mathematics, University of Catania, December 21<sup>st</sup>, 1978 – December 18<sup>th</sup>, 1981 at *Cattedra di Meccanica Razionale della Facoltà di Scienze Matematiche Fisiche e Naturali*.
- “**Professore Incaricato**” of Calculus II, at Engineering Faculty of University of Catania, December 21<sup>st</sup>, 1978 – December 18<sup>th</sup>, 1981.
- “**Professore Incaricato**” of Mathematics, at Natural Science Faculty of University of Catania, December 21<sup>st</sup>, 1978 – December 18<sup>th</sup>, 1986.
- **Researcher MAT/07** (Mathematical Physics), University of Catania, December 19<sup>th</sup>, 1981 – January 28<sup>th</sup>, 1986.
- **Associate Professor MAT/07** (Mathematical Physics), University of Catania, January 29<sup>th</sup>, 1986 – October 31<sup>st</sup>, 1994.
- **Professor MAT/07** (Mathematical Physics), University Federico II, Naples, November 1<sup>st</sup>, 1994. – October 31<sup>st</sup>, 1996.
- **Professor MAT/07** (Mathematical Physics), University of Catania, from November 1<sup>st</sup>, 1996.
- **Chair of Department of Mathematics and Computer Sciences**, University of Catania, since November 1<sup>st</sup>, 2008 to 31 October 2015
- **Elected member of *Senato Accademico* of the University of Catania**, since June 2012 to 31 October 2015
- Member of the **Administrative Board of the University of Catania** since 2017.
- Member of the Editorial board of *Ricerche di Matematica* (Springer) since 2016.

## Teaching activity of the last years

- Professor of *Istituzioni di Fisica Matematica CdL Matematica Magistrale*
- Professor of *Sistemi dinamici CdL Matematica*

## Society

I.S.I.M.M. (International Society for the Interaction of Mechanics and Mathematics)

G.N.F.M. (Gruppo Nazionale Fisica Matematica)

U.M.I. (Unione Matematica Italiana)

## (Some) Organizing Activity

- Chair of the Organizing Committee and Member the Scientific Committee of the International Workshop *Waves and Stability in Continuous Media (WASCOM)*, Acireale - Catania, September 1995.
- Chair of the Organizing Committee and Co-Chair of the Scientific Committee of the International Workshop *Waves and Stability in Continuous Media (WASCOM)*, Acireale - Catania, September 2005.
- Chair of the Organizing Committee and Co-Chair of the Scientific Committee of the International Workshop *Fifth China-Italy Colloquium on Applied Mathematics*, Acireale, September 27–30, 2010.

## Other Scientific Activities

- He has participated in *more than 60* International and National Meetings and Workshops. In many of them he has been Invited Speaker.
- Professor of the course on *Qualitative analysis in fluid dynamics* at the XXIII Summer School of Mathematical Physics in Ravello, Italy (September 1998).
- He has visited and gave seminars at Southwest Normal University Chongqing (October, 2002, October, 2004, September 2006, October 2008)
- He has visited and gave seminars at Durham University, UK (September, 2001, October, 2006)
- He has been Member of the Editorial Board of *Ricerche di Matematica* and *Le Matematiche*
- *Referee* for many journals (among the others: Proc. Roy Soc London A, J. Math. Anal. Appl., Nonlinear Analysis, Int. J. Eng. Science, Math. Meth. Appl. Sci., Appl. Anal., Continuum Mech. and Thermodyn., Acta Mechanica, Mechanics Research Communications, etc.)
- He has attended to many selection boards for Ordinario, Associato and Ricercatore Positions in Italy in the Scientific Group of Mathematical Physics.

## Research Projects

- Coordinator of Local research Project (PRA) on *Qualitative analysis and stability in Fluid dynamics, Qualitative analysis and stability in Fluid dynamics, Thermodynamics and Biomathematics* (1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008).
- Local Coordinator of a PRIN Project 2000 Coordinator Prof. Ruggeri *Non Linear Mathematical Problems of Wave Propagation and Stability in Models of Continuous Media*
- Local Coordinator of a PRIN Project 2003 Coordinator Prof. Ruggeri *Nonlinear Mathematical Problems of Wave Propagation and Stability in Models of Continuous Media*
- Local Coordinator of a PRIN Project 2005 Coordinator Prof. Ruggeri *Nonlinear Propagation and Stability in Thermodynamical Processes of Continuous Media*
- Principal Investigator of FIR 2014, University of Catania: *Continuum mechanics, qualitative analysis for dissipative systems, classical and quantum extended thermodynamics*

## Research Activity

- Continuum mechanics: fluid dynamics and magnetofluid dynamics
- Bénard problems, convective instability
- Qualitative analysis and stability, optimal Lyapunov functions
- Flows in porous media
- Dynamical systems: autonomous and non-autonomous systems
- Mathematical models for biology, epidemic models
- Partial Differential Equations of parabolic type (reaction-diffusion equations), parabolic-hyperbolic equations
- Navier-Stokes systems

## Publications

He is author of more than 100 scientific publications.