

MARCO MENDOLICCHIO | CV



- › **Address:** Via Consoli del Mare 2, 56123 Pisa (PI), Italy
- › **Born on:** 12/10/1992
- › **E-mail:** marco.mendolicchio@sns.it
- › **Research field:** Theoretical and computational chemistry

››› EDUCATION AND TRAINING

- 2016 - Present **PhD in "Methods and Models for Molecular Sciences"**, Scuola Normale Superiore di Pisa, Italy.
- › PhD Advisor: Prof. Vincenzo Barone
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- 2014 - 2016 **Master's degree in Chemical Sciences (Physical Chemistry)**, University of Pisa, Italy.
- › Final grade: 110/110 *cum laude*
 - › Advisor: Prof. Vincenzo Barone
 - › Title: Anharmonicity effects on the structural and vibrational properties of molecular systems in different electronic states
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- 2011 - 2014 **Bachelor's degree in Chemical Sciences**, University of Pisa, Italy.
- › Final grade: 110/110 *cum laude*
 - › Advisor: Prof. Vincenzo Barone
 - › Title: General fitting approach for anharmonic force fields
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- 2011 - 2016 **Master's degree (diploma di licenza) in Chemical Sciences**, Scuola Normale Superiore di Pisa, Italy.
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- 2006 - 2011 **High school degree**, Liceo scientifico tecnologico Enrico Fermi, Lucca, Italy.
- › Final grade: 86/100

››› TEACHING ACTIVITY

- 2016 - 2017 **Theoretical models for the simulation of vibrational spectra (8h)** Cycle of didactic seminars, University of Pisa, Italy.

»» PUBLICATIONS ON INTERNATIONAL PEER-REVIEWED JOURNALS

- 2015 A. Baiardi, M. Mendolicchio, V. Barone, G. Fronzoni, G.A. Cardenas Jimenez, M. Stener, C. Grazioli, M. de Simone, M. Coreno, **Vibrationally resolved NEXAFS at C and N K-edges of pyridine, 2-fluoropyridine and 2,6-difluoropyridine: A combined experimental and theoretical assessment**, *The Journal of Chemical Physics*, 103, 204102 (2015)
- 2016 F.A. Gianturco, M. Satta, M. Mendolicchio, F. Palazzetti, A. Piserchia, V. Barone, R. Wester, **Exploring a chemical route for the formation of stable anions of polyynes [C_nH⁻(n=2,4)] in molecular clouds**, *The Astrophysical Journal*, 830, 2 (2016)
- E. Penocchio, M. Mendolicchio, N. Tasinato, V. Barone, **Structural features of the carbon-sulfur chemical bond: A semi-experimental perspective**, *Canadian Journal of Chemistry*, 94, 1065 (2016)
- 2017 M. Mendolicchio, E. Penocchio, D. Licari, N. Tasinato, V. Barone, **Development and implementation of advanced fitting methods for the calculation of accurate molecular structures**, *The Journal of Chemical Theory and Computation*, DOI:10.1021/acs.jctc.7b00279 (2017)

»» PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

- 2015 M. Mendolicchio, A. Baiardi, J. Bloino "A fitting approach for anharmonic force fields", III Congresso Nazionale della Divisione di Chimica Teorica e Computazionale della Società Chimica Italiana, Roma, Italy (December 14 - 16, 2015) · **Poster Presentation.**
- 2017 M. Mendolicchio, N. Tasinato, V. Barone "MSR: a new software for the calculation of accurate molecular structures", Workshop DREAMS@Anacapri, Isle of Capri (Naples), Italy (April 20 - 22, 2017) · **Poster Presentation.**

»» COMPUTATIONAL SKILLS

- Programming languages
- » Good skills in Visual Basic
 - » Advanced skills in Fortran 77/90/95 and Python
- Operating systems
- » Good skills in GNU/Linux and MS Windows

»» LANGUAGES

- Italian Mother tongue
- English Good skills in reading, writing and oral expression