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## **Ab initio study of the optical properties of green fluorescent protein**

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## List of publications

- M. Zaccheddu, C. Filippi, and F. Buda, *Anion- $\pi$  and  $\pi$ - $\pi$  interactions regulating the self-assembly of nitrate-triazine-triazine complexes*, J. Phys. Chem A, **112**, 1627 (2008).
- M. Zaccheddu, L. Guidoni, and C. Filippi, *Gas-phase optical properties of the Green Fluorescent Protein chromophore: A theoretical study*, (in preparation).
- M. Zaccheddu, L. Guidoni, and C. Filippi, *Impact of the protein environment on the spectra of Green Fluorescent Protein*, (in preparation).

*List of publications*

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# Curriculum Vitae

I was born on the 14th of June 1978 in Cagliari, Italy. I did my high school studies at the Liceo Scientifico L. B. Alberti in Cagliari, and received my diploma in July 1997. In the same year, I enrolled as an undergraduate student at Cagliari University where I graduated in Physics in April 2003. I conducted my master thesis in the field of dielectric properties of amorphous materials under the supervision of Prof. Vincenzo Fiorentini. From September 2003 to December 2003, I was employed as researcher in the computational solid state physics group in the Physics Department at Cagliari University.

In December 2003, I started my PhD at the Instituut-Lorentz under the supervision of Prof. Claudia Filippi. During my PhD, I presented my work at several international conferences as oral or poster contributions. Particularly relevant were the workshops *Progress in ab initio modeling of biomolecules: Methods and applications* (Leiden, 2006), *Progress in ab initio modeling of biomolecules: Towards computational spectroscopy* (Rome, 2007), and *Workshop on computational material science: Total energy and forces methods* (Trieste, 2007). I also attended several schools as the joint DEMOCRITOS-ICTP School on *Continuum Quantum Monte Carlo Methods* (Trieste, 2004), and the two schools organized by the Dutch Research School of Theoretical Physics (DRSTP) in Nijmegen in 2004 and 2005.

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During these four years in Leiden, I met many new people and with some of them I spent some beautiful moments; therefore, I would like to thank all my friends.

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