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**Putting a spin on it: amyloid aggregation from oligomers to fibrils**  
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# Curriculum vitae

Enrico Zurlo

August 26, 1987 Born in Cittadella, Veneto.

## *Research Experience*

February 2015 – June 2020

PhD student, Huygens-Kamerlingh Onnes Laboratory, Leiden Institute of Physics, Leiden University, Leiden, The Netherlands

February 2014 – January 2015

Junior research fellow, Department of Chemistry, University of Padova, Italy

Project : Phonon-Assisted Processes for Energy Transfer and Sensing

Supervisor: dr. Elisabetta Collini

## *Education*

September 2009 – October 2013

M. Sc. in Chemistry, Department of Chemistry, University of Padova, Italy

Project: Distance information by double electron-electron resonance (DEER) on a spin-labelled peptide conjugated to a porphyrin

Supervisor: dr. Marilena Di Valentin

September 2006 – September 2009

B. Sc. in Chemistry, Department of Chemistry, University of Padova, Italy

Project: Development of the setup for the quantification of nitroxide in plants by EPR spectroscopy

Supervisor: dr. Marilena Di Valentin



## List of publications

- **Zurlo, E.**, Gorroño Bikandi, I., Meeuwenoord, N. J., Filippov, D. V. & Huber, M. Tracking amyloid oligomerization with monomer resolution using a <sup>13</sup>-amino acid peptide with a backbone-fixed spin label. *Phys. Chem. Chem. Phys.* **21**, 25187–25195 (2019).
- Gast P, Mance D, **Zurlo E**, Ivanov KL, Baldus M, Huber M. A tailored multi-frequency EPR approach to accurately determine the magnetic resonance parameters of dynamic nuclear polarization agents: Application to AMUPol. *Phys. Chem. Chem. Phys.* **19**, (2017).
- Di Valentin, M., Albertini, M., **Zurlo, E.**, Gobbo, M. & Carbonera, D. Porphyrin triplet state as a potential Spin label for nanometer distance measurements by peldor spectroscopy. *J. Am. Chem. Soc.* **136**, 6582–6585 (2014).
- Di Valentin M, Albertini M, Dal Farra MG, **Zurlo E**, Orian L, Polimeno A. Light-Induced Porphyrin-Based Spectroscopic Ruler for Nanometer Distance Measurements. *Chem. - A Eur. J.* **22**, (2016).
- Biscaglia F, Frezza E, **Zurlo E**, Gobbo M. Linker dependent chirality of solvent induced self-assembled structures of porphyrin- $\alpha$ -helical peptide conjugates. *Org Biomol Chem* 2016; **14**.

## In preparation

- **Enrico Zurlo**, Pravin Kumar, Georg Meisl, Alexander J Dear, Dipro Mondal, Mireille M.A.E. Claessens, Tuomas P J Knowles, Martina Huber, In situ kinetic measurements of  $\alpha$ -synuclein aggregation reveal large population of short-lived oligomers
- Qing Miao, **Enrico Zurlo**, Donny de Bruin, Joeri A. J. Wondergem, Monika Timmer, Anneloes Blok, Doris Heinrich, Mark Overhand, Martina Huber, Marcellus Ubbink, A two-armed probe for in-cell DEER measurements on proteins



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