





Curriculum Vitae

Sandra Mónica
Vieira Pinto

PhD student at Scuola Normale Superiore, 
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Skills

- Photochemistry
- Matrix-Isolation Experiments
- Infrared Spectroscopy
- Quantum Chemical Calculations
- Organic Synthesis
- Reactive Intermediates

Experience

DECEMBER 2016 – AUGUST 2017

Fellowship for M.Sc. / Laboratory of Molecular Cryo-spectroscopy and Bio-spectroscopy of the Department of Chemistry of the University of Coimbra, Portugal

Conformational studies of phenolic compounds, photochemistry of tetrazoles and structural studies on phosphonic acids and phosphonate.

JUNE 2015

Visiting / Institute of Physics of Polish Academy of Sciences in Warsaw, Poland

Bilateral Project between FCT (Portugal) and Ministry of Science and Higher Education Warsaw (Poland) on “Near-infrared induced generation of unstable conformers in low temperature matrices”.

SEPTEMBER 2013 – SEPTEMBER 2016

Research for Diploma and M.Sc. Thesis / Laboratory of Molecular Cryo- and Bio-spectroscopy of the Department of Chemistry of the University of Coimbra, Portugal

Photochemistry of benzisoxazoles and conformational studies of related species in cryogenic matrices.

Education

ON-GOING

Ph.D. in Methods and Models for Molecular Sciences / Scuola Normale Superiore of Pisa, Italy

SUPERVISOR: Isabella Daidone

THESIS: “*In silico* infrared spectroscopy of protein side-chains”

SEPTEMBER 2016

M.Sc. in Advanced and Industrial Chemistry / Department of Chemistry of the University of Coimbra, Portugal

SUPERVISOR: Rui Fausto Lourenço CO-SUPERVISOR: Cláudio Nunes

THESIS: "Photochemistry of 1,2-benzisoxazoles in cryogenic matrices: Characterization of reactive intermediates"

JULY 2014

Diploma in Chemistry / Department of Chemistry of the University of Coimbra, Portugal

Scientific publications on international peer-reviewed journals

2017:

- Nunes, C.M.; Pinto, S.M.V.; Reva, I.; Rosado, M.T.S.; Fausto, R. Photochemistry of matrix-isolated 3-chloro-1,2-benzisoxazole: Generation and characterization of 2-cyanophenoxyl radical and other reactive intermediates, *Journal of Molecular Structure*, 2017, 1172, 33-41. DOI: 10.1016/j.molstruc.2017.11.009

2016:

- Nunes, C.M.; Pinto, S.M.V.; Reva, I.; Fausto, R. On the Photochemistry of 1,2-Benzisoxazole: Capture of Elusive Spiro-2H-azirine and Ketenimine Intermediates. *European Journal of Organic Chemistry*, 2016, 24, 4152-4158. DOI: 10.1002/ejoc.201600668
- Nunes, C. M.; Pinto, S. M. V.; Reva, I.; Fausto, R. Photochemistry of 3-amino-1,2-benzisoxazole: the unexpected photoisomerization of an amino-spiro-2H-azirine to a 1H-diazirine. *Tetrahedron Lett.* 2016, 57, 5038-5041. DOI: 10.1016/j.tetlet.2016.09.098

Communications in National and International Conferences

2018:

- S. Pinto, N. Tasinato, V. Barone. Quantum Chemical Characterization of the Infrared Spectra of E- and Z-ethanimine and its Isotopes. XXXIV European Congress on Molecular Spectroscopy – EUCMOS 2018, Coimbra, Portugal, 19-24 August, 2018. **Poster presentation.**
- Nihal Kuş, Sandra M.V. Pinto, Rui Fausto. UV-induced Conformational Isomerization Study of Matrix-Isolated 2-Amino-5-Chlorobenzoic Acid. XXXIV European Congress on Molecular Spectroscopy – EUCMOS 2018, Coimbra, Portugal, 19-24 August, 2018. **Poster presentation.**

2017:

- H. Lamsaf, M.I.L. Soares, S.M.V. Pinto, M.S.C. Henriques, J.A. Paixão, A. Oulmekki, E.H. Elghadraoui, R. Fausto. Synthesis, structural and spectroscopic studies of a new phosphonic acid: (2-oxo-2-(thiophen-2-yl) ethyl) phosphonic acid. Transmediterranean Colloquium on Heterocyclic Chemistry (TRAMECH IX), Fez, MAROCCO, 22-25 November 2017. *Accepted for poster presentation and as an article for the Conference Journal.*
- S. M. V. Pinto, C. M. Nunes, I. Reva, R. Fausto. On the Photochemistry of 3-amino-1,2-benzisoxazole: The unexpected photoisomerization of an amino-spiro-2H-azirine to a 1H-diazirine. The 28th International Conference on Photochemistry (ICP 2017), Strasbourg, FRANCE, 16-21 July 2017. **Poster Communication.**

2016:

- S. M. V. Pinto, C. M. Nunes, I. Reva, R. Fausto. Photochemistry of 1,2-Benzisoxazoles in Low-Temperature Matrices. The Coimbra Chemistry Centre day, Coimbra, PORTUGAL, October 18, 2016 and MOleCules In Motion (MOLIM), From Potentials to Dynamics: The Starting Journey *From Potentials to Dynamics: The Starting Journey*. Curia, PORTUGAL, 30 March – 3 April 2016. **Poster Communication.**
- S. M. V. Pinto, C. M. Nunes, I. Reva, R. Fausto. Generation of a Higher-Energy Conformer of 2-Cyanophenol Isolated in Low Temperature Matrices. 5th PYChem and 1st EYChem, Guimarães, PORTUGAL, 26-29 April 2016. **Poster Communication.**

2014:

- S. M. V. Pinto, C. M. Nunes, I. Reva, R. Fausto. Capture of an Elusive *spiro-2H-Azirine* and Ketanimine: Key Intermediates in the Photochemistry of 1,2-Benzisoxazole. the 4th Portuguese Young Chemists Meeting (4^o PYChem), Coimbra, PORTUGAL, 29 April – 1 May 2014. **Poster communication.**

Participation in International Schools

2018:

- Computational Spectroscopy: Bridging Theory and Experiment. Lake Como School of Advanced Studies. Lake Como, ITALY, September 9th – 14th.

2016:

- MOleCules In Motion (MOLIM), From Potentials to Dynamics: The Starting Journey From Potentials to Dynamics: The Starting Journey. Curia, PORTUGAL, March 30th – April 3rd.

Attendance to National and International Conferences and Workshops

2018:

- Modern Aspects of Computational Spectroscopy, Pisa, ITALY, November 22nd and 23rd
- XXXIV European Congress on Molecular Spectroscopy, Coimbra, PORTUGAL, August 19-24th
- ASTRO-Winter Modeling, Bologna, ITALY, February 15-16th.

2017:

- ERC AdG – Barone DREAMS: final Meeting, Pisa, ITALY, November 29th - December 2nd.
- 28th International Conference on Photochemistry, Strasbourg, FRANCE, July 16-21th.
- V national chemistry students meeting (V ENEQUI), Coimbra, PORTUGAL, April 07-10th.

2016:

- II Scientific Meeting - NEQ/AAC, Coimbra, PORTUGAL, November 17th and 18th.
- The Coimbra Chemistry Centre day, Coimbra, PORTUGAL, October 18th, 2016.
- V PYChem and I EYChem, Guimarães, PORTUGAL, April 26-29th.

2015:

- I Scientific Meeting - NEQ/AAC, Coimbra, PORTUGAL, November 19-20th.
- 'Phase Equilibria Workshop' integrated into the 41st Conference on Phase Equilibria - JEEP2015, Coimbra, PORTUGAL, March 25th.

2014:

- IV Portuguese Young Chemists Meeting, Coimbra, PORTUGAL, April 29th-May 1st.

2013:

- I National Chemistry Students Meeting, Coimbra, PORTUGAL, March 22-24th.

2012:

- III Congress of Criminal Investigation, Figueira da Foz, PORTUGAL, March 29-30th.

Language Skills

PORTUGUESE:	Mother tongue
ENGLISH:	Good skills in writing and oral expression.
ITALIAN:	Fair skills in writing and oral expression.
SPANISH:	Fair skills in oral expression.