

## Curriculum vitae Anna Dall'Anese

### **Personal information**

Name and Surname: Anna Dall'Anese

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Sex: Female

Date of birth: 14/09/1992

Nationality: Italian



### **Education and training**

November 2016 - present	PhD Student, University of Trieste  Title: Development of homogeneous catalysts for polymerization reactions Supervisor: Prof. Barbara Milani
October 2014 – September 2016	Master's degree in Chemistry, University of Padova, mark 109/110  Thesis title: Synthesis of novel Au(III) complexes with di-NHC ligands and studying of their templating properties in the growing of polyhalides Abstract: In this thesis project I have synthesized and characterized a series of gold(III) complexes with several di-N-heterocyclic carbenes, which differed in the length of the connecting bridge between the carbene units or in the nitrogen wingtip substituents. The synthesis were performed using the so-called transmetalation route. Two of the complexes I've obtained have been used to test their ability as templating agents for the growing of polyhalides. These complexes indeed favor the formation of polyhalides, but only short halogen chains have been obtained. It is also possible to observe an elongation in the X-X bond in the halogen and to recognize an interaction between the gold complex and the halides in the apical positions. Supervisor: Prof. Cristina Tubaro  General: Inorganic chemistry, organic chemistry, physical chemistry Occupational: Electrochemistry, analytical chemistry and environment, REACH, patents in chemistry, supramolecular chemistry, synthesis and reactivity of inorganic compounds, physical methods in organic chemistry, organometallics, reaction mechanisms in inorganic chemistry.

<p>October 2011 – September 2014</p>	<p>Bachelor's degree in Chemistry, University of Padova, mark 105/110</p> <p>Thesis Title: Synthesis of Ru(II) and Ir(III) complexes with NHC-P ligands</p> <p>Abstract: In this thesis project I have investigated the coordination properties of NHC-P ligands, which combine the features of N-heterocyclic carbenes and phosphines. Complexes of these ligands with metals belonging to group 10 and group 11 of the transition series are well known, so we wanted to explore the coordination of metals of the group 8 (Ru) and 9 (Ir). We performed both direct synthesis between the ligands and appropriate metal precursors (<math>[\text{RuCl}_2(\text{p-cymene})]_2</math> and <math>[\text{IrCl}_2\text{Cp}^*]_2</math>) and transmetallation reaction from a preformed Ag NHC-P complex to the new metal in the form of a precursor. The products have been characterized with NMR spectroscopy (<math>^1\text{H}</math>, <math>^{13}\text{C}\{^1\text{H}\}</math>, <math>^{31}\text{P}\{^1\text{H}\}</math>).</p> <p>Supervisor: Dr. Cristina Tubaro</p> <p>General: Mathematics, physics</p> <p>Occupational: Inorganic chemistry, organic chemistry, analytical chemistry, physical chemistry, biological chemistry, food chemistry, pharmaceutical chemistry, extensive laboratory practice.</p>
<p>September 2006- June 2011</p>	<p>Secondary school degree, mark 95/100</p> <p>Liceo Scientifico "M. Flaminio", 31029 Vittorio Veneto (TV), Italy</p>

### **Personal skills**

<p>Mothertongue(s)</p>	<p>Italian</p>
<p>Other language(s)</p>	<p>English (B2/C1), French (A1)</p>
<p>Computer skills</p>	<p>Good knowledge of Microsoft Office tools, internet and operative system such as Windows and Linux.</p> <p>Good ability on programmes like Origin, ChemDraw, Mestrenova, Mercury and the use of Reaxys database.</p> <p>Basic use of LaTeX.</p>
<p>Job related skills</p>	<p>Good ability of synthetic techniques in inert atmosphere (Schlenk and dry box) and under air, both for organic and inorganic compounds.</p> <p>Good knowledge of analytical techniques as FT-IR, UV-vis, AA, GC and LC-MS.</p> <p>Good command of techniques for the identification of compounds like <math>^1\text{H-NMR}</math>, <math>^{13}\text{C-NMR}</math>, <math>^{31}\text{P-NMR}</math>, 2D-NMR, MS.</p>
<p>Other experiences</p>	<p>In secondary school I joined the project "Scuola e Volontariato" and I had the opportunity to be a volunteer in after-school activities.</p> <p>I also volunteered in my local parish in summer camps for children and youth groups for teenagers.</p> <p>In summer 2010 I worked as a librarian in my hometown thanks to a project funded by Regione Veneto.</p> <p>From October 2016 I've occasionally worked for Gioielleria Speranza Livio &amp; C. (jewelry store) in Vittorio Veneto as sales assistant.</p>

## **Referees**

Prof. Barbara Milani (PhD supervisor): milaniba@units.it

Prof. Cristina Tubaro (Master's degree supervisor): cristina.tubaro@unipd.it