

CURRICULUM VITAE



PERSONAL INFORMATION

Name	GIROLAMO D'AGOSTINO
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C.F.	DGSGLM78D10G388R
P.I.	02261400184
Nationality	Italian
Date of birth	10/04/1978

WORK EXPERIENCE

- Period **From 2015 to today**
- Name and address of the employer Copernico Srl – Via Monte Hermada, 75 Udine (UD)
- Type of business or sector Planning and consulting company in the field of reclamation and environmental restoration
- Kind of employment Chemical consultant
- Main tasks and responsibilities
 - Chemical consulting activities in the field of remediation, monitoring, aquifer restoration and risk analysis
 - R&D laboratory manager of the company
- Period **From 2006 to today**
- Name and address of the employer Municipality of Sannazzaro de' Burgondi (PV)
- Type of business or sector Public administration
- Kind of employment Environmental Consultant
- Main tasks and responsibilities External consultancy for "technical-environmental support activities" regarding: integrated environmental authorizations (AIA), environmental impact assessments (EIA), authorization of new plants, discharges, atmospheric emissions, reclamation, waste, waste water treatment. Secretary and member of the Control Commission of the ENI Refinery and delegated member of the Municipality of Sannazzaro within the AIA-IPPC instructor group at the Ministry of the Environment for the ENI Refinery
- Period **From 2014 to 06/2016**
- Name and address of the employer Municipality of Mezzana Bigli (PV)
- Type of business or sector Public administration
- Kind of employment Environmental Consultant
- Main tasks and responsibilities External consultancy for "technical-environmental support activities related to industrial activities at risk of major accidents (RIR) regarding: integrated environmental authorizations (AIA), environmental impact assessments (EIA), authorization of new plants, discharges, atmospheric emissions, waste water treatments.

- Period **From 12/11/2013 to 31/12/2013**
 - Name and address of the employer Department of Industrial and Information Engineering
 - Type of business or sector Second University of Naples
 - Kind of employment Job assignment service of a professional nature
 - Main tasks and responsibilities Study and development of optical transduction chemical sensors based on polymeric molecular recognition systems - Study and development of optodevices for on-line measurement of gases dissolved in transformer oil
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- Period **From 01/02/2013 to 30/09/2013**
 - Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
 - Type of business or sector The University of Pavia
 - Kind of employment Research fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - design and development of intelligent sensors for trace substances based on synthetic polymeric receptors
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- Period **From 01/02/2011 to 31/01/2013**
 - Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
 - Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - design and development of intelligent sensors for in-situ checks on wastewater based on acrylic and vinyl molecules with molecular mold.
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- Period **From 01/12/2008 to 30/11/2009**
 - Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
 - Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - design and development of electrochemical surface modified sensors (through coating of surfaces with polymeric materials)
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- Period **From 01/07/2008 to 30/11/2008**
 - Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
 - Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - Synthesis of polymers with molecular imprinting for aromatic nitro derivatives
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- Period **From 01/09/2007 to 30/04/2008**
 - Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
 - Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - design and development of intelligent sensors for trace substances based on synthetic polymeric receptors

- Period **From 01/07/2006 to 30/06/2007**
- Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
- Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - design and development of electrochemical sensors based on synthetic polymeric receptors

- Period **From 01/01/2006 to 30/06/2006**
- Name and address of the employer Department of Chemistry Via Taramelli 12 - 27100 - Pavia
- Type of business or sector The University of Pavia
 - Kind of employment Research Fellow
 - Main tasks and responsibilities Research activity in the chemical / analytical field - Analytical methods for trace substances

EDUCATION

- Date 31/01/2006
- Name and type of educational institution **PhD in Chemical Sciences** at the University of Pavia
- Principal subjects / occupational skills covered by the study Chemical research; thesis title: "Preparation and characterization of molecular recognition systems in order to develop chemical sensors"
- Qualification achieved Doctor of Research (Ph. D.)

- Date 03/10/2002
- Name and type of educational institution **Degree in Chemistry** from the University of Pavia
- Principal subjects / occupational skills covered by the study Chemistry with vote 110/110; title of the thesis: "Sorbent phases for triazine herbicides: immunoabsorbents and templated polymers - Applications for preconcentration and development of sensors"
- Qualification achieved Doctor of Chemistry

- Date 1996
- Name and type of educational institution Diploma of **Industrial Chemical Expert** obtained at the I.T.I.S. G.Cardano of Pavia
- Principal subjects / occupational skills covered by the study Chemistry
- Qualification achieved Chemical expert

- Title **Qualification to practice as a chemist**, having passed the state exam in November 2002

- Title **Registered in the register of Chemists of the Province of Pavia** (in possession of the professional stamp)

- Expert in the subject for university courses at

CHIM01 at the Department of Chemistry of the University of Pavia (**Analytical Chemistry and Laboratory of Analytical Chemistry I, Laboratory of Analytical Chemistry II, Electroanalytical Chemistry, Data Treatment and Chemistry, Analytical Methodologies for Substances in Tracce, Environmental Analytical Chemistry**) until December 2013

SKILLS AND TECHNICAL / PERSONAL SKILLS

- Acquired experience in carrying out **research and analysis activities in chemical laboratories**
- Acquired experience in the **development and characterization of polymers** (beads, membranes and polymeric films)
- Acquired experience in the use and development of methods of common instrumental analytical techniques such as: **UV-VIS and IR spectrophotometry, atomic absorption spectroscopy in flame and with graphite furnace, ICP-optical, ICP-mass, potentiometry, polarography, voltammetry, liquid chromatography (HPLC), gas chromatography (GC) and ion chromatography (IC), KF, SPR, thermal analysis.**
- Acquired experience in **managing authorization procedures for industrial plants, consultancy and assistance in the field of environmental protection issues**
- Acquired experience in **Chemical-Environmental Consultancy related to EIA procedures, reclamation, AIA or environmental upgrades, examination of certificates of analysis of samples related to matrices of environmental interest (air, water, soil, waste) deriving from atmospheric emissions controls, water discharges, sludge, landfills, plants at risk of major accidents, ISO14000, EMAS, etc.**

NATIVE SPEAKER

ITALIAN

OTHER LANGUAGE

ENGLISH

- Reading skills
- Writing skills
- Speaking skills

Good
Good
Good

ORGANIZATIONAL SKILLS

Coordination, management and programming of laboratory work, research projects and chemical analysis.
Coordination of technical work groups and relations with control bodies.

COMPUTER SKILLS AND COMPETENCES

Operating systems: MS-Windows, Linux, MS-Dos,

OTHER SKILLS AND COMPETENCES	<p>Basic. Applications: Ms-Office (Excel, Word, PowerPoint, Access, FrontPage, Publisher), Open office, SigmaPlot, various Web browsers, various (Ms-Outlook, Eudora, Adobe Acrobat, Adobe PhotoShop, Corel Draw, MatLab) CAD: Autodesk Fusion 360 Acquired experience in prototyping and 3D printing. Good knowledge of hardware, peripherals and TCP-ip networks.</p> <p>Acquired experience in optoelectronic sensors based on POF optical fibers. License and ordinary license of radio operator having passed the radiotechnology / telecommunications and telegraphy exam at the Ministry of Telecommunications.</p>
DRIVING LICENSE	A -B
PARTICIPATION IN TRAINING COURSES	<ul style="list-style-type: none"> • 2014 - Training Course "Measurement uncertainty in Analytical Scope" at the Order of Chemists of the province of Pavia • 2014 - Training Course "Environmental Authorizations AIA, AUA, RIR" at the Order of Chemists of the province of Pavia • 2015 - Training Course "The figure of the C.T.U.: name, duties and obligations" at the Order of Chemists of the Province of Pavia • 2015 - Training course "" The activity of the freelancer. From the conferment of the task to the performance of the service, in line with the deontological dictates "" at the Order of chemists of the province of Pavia • 2016 - Training Course "Determination of biomass content in waste and Secondary Solid Fuels" at the Order of Chemists of the Province of Pavia • 2016 - Training Course "Inorganic analytical chemistry: chromatography and characterization of materials" at the Order of Chemists of the Province of Pavia • 2016 - Training Course "The sustainable management of underground water resources: methodological approaches and operational tools" Fast - Milan • 2017 - Training Course "Treatment of sewage sludge" Fast - Milan • 2017 - Training Course "The search for emerging micro pollutants in drinking water" at the Milan Order of Engineers • 2018 - Training Course "Waste: from legislation to practice" at the Order of chemists of the province of Pavia

PUBLICATIONS AND PARTICIPATION IN CONGRESSES

- G. D'Agostino, N. Cennamo; "Molecular mold polymer, its uses and preparation procedure": Specific adsorbent for perfluorinated substances and sensor application - Patent No. 102017000147588
- G. D'Agostino, A. Biasiolo, G.Porto; "Material, apparatus and method for the separation of material contaminating from a liquid": Specific adsorbent for perfluoroalkyl contaminants and relative applications for decontamination of liquid matrices - Patent n ° 102016000003609
- N. Cennamo, G. D'Agostino, A.Donà, P.Pallavicini, M. Pesavento, L.Zeni; "Optical sensor for detecting the concentration of at least one explosive substance in an aqueous solution and method using this sensor" - Patent No. MI2014A000366
- N. Cennamo, L. De Maria, G. D'Agostino, M. Pesavento, L.Zeni; "Optical sensor for detecting the concentration of at least one furan compound and / or its derivatives in transformer oil" - Patent No. MI2014A000428
- N. Cennamo, G. D'Agostino, G.Porto, A. Biasiolo, C. Perri, F. Arcadio and L. Zeni: A Molecularly Imprinted Polymer on a Plasmonic Plastic Optical Fiber to Detect Perfluorinated Compounds in Water. *Sensors* (2018), 18, 1836
- N. Cennamo, L. De Maria, G. D'Agostino, L. Zeni and M. Pesavento: Monitoring of low levels of furfural in power transformer oil with a sensor system based on a POF-MIP platform. *Sensors* (2015), 14 (4), 8499-8511
- N. Cennamo, A. Donà, P.Pallavicini, G. D'Agostino, G. Dacarro, L. Zeni, M. Pesavento: Sensitive detection of 2,4,6-trinitrotoluene by three-dimensional monitoring of molecularly imprinted polymer with optical fiber and five-branched gold nanostars. *Sensors & Actuators: B.Chemical* (2015), 208,291-298
- N. Cennamo, G.Alberti, M. Pesavento, G. D'Agostino, F.Quattrini, R.Biesuz and L. Zeni: A simple small size and low cost sensor based on surface Plasmon resonance for selective detection of Fe (III). *Sensors* (2014), 14 (3), 4657-4671
- N. Cennamo, G. D'Agostino, M. Pesavento and L. Zeni: High selectivity and sensitivity based on MIP and SPR in tapered plastic optical fibers for detection of L-nicotine. *Sensors & Actuators: B Chemical* (2014), 191, 529-526
- N. Cennamo, G. D'Agostino, A. Donà, G. Dacarro, P.Pallavicini, M. Pesavento and L. Zeni: Localized surface Plasmon resonance with five-branched gold nanostars in plastic optical fiber for bio-chemical sensor implementation. *Sensors* (2013), 14676-14686
- N. Cennamo, G. D'Agostino, L. Zeni and M. Pesavento: Monitoring of low levels of furfural in power transformer oil with a sensor system based on a POF-MIP platform. *Sensors* (2015), 14 (4), 8499-8511
- N. Cennamo, L. De Maria, G. D'Agostino, R.Galatus, L.Bibbò, M. Pesavento and L. Zeni: Sensors based on surface Plasmon resonance in plastic optical fiber for detection of trinitrotoluene. *Sensors &* (2015), 14 (4), 8499-8511
- M. Pesavento, G. D'Agostino, R. Biesuz, G. Alberti, D. Merli: Voltammetric platform for detection of 2,4,6-trinitrotoluene based on a molecularly imprinted polymer. *Analytical*

and Bioanalytical Chemistry (2013), 405(11), 3559-3570

- F. Bianchi, M. Giannetto, G. Mori, G. D'Agostino, M. Careri, A. Mangia: Solid-phase microextraction of 2,4,6-trinitrotoluene using a molecularly imprinted-based fiber. Analytical and Bioanalytical Chemistry (2012), 403(8), 2411-2418
- G. D'Agostino, G. Alberti, R. Biesuz, M. Pesavento: Potentiometric sensor for atrazine based on a molecular imprinted membrane. Biosensors & Bioelectronics (2006), 22, 145-152
- M. Pesavento, G. D'Agostino, R. Biesuz, G. Alberti, A. Profumo: Ion selective electrode for dopamine based on a molecularly imprinted polymer. Electroanalysis (2012), 24, (4), 813
- M. Pesavento, G. D'Agostino, R. Biesuz, G. Alberti: Molecularly imprinted polymer-based sensors for amperometric determination of nonelectroactive substances. Electroanalysis (2009), 21, (3-5), 604
- M. Pesavento, M. Sturini, G. D'Agostino, R. Biesuz: Solid phase extraction of copper(II) by fixed bed procedure on cation exchange complexing resins. Journal of Chromatography A (2010), 1217 (8), 1208.
- R. Biesuz, G. Alberti, G. D'Agostino, E. Magi and M. Pesavento: Determination of cadmium(II), copper(II), manganese(II) and nickel(II) species in Antarctic seawater with complexing resins. Marine Chemistry (2006), 101(3-4), 180-189
- G. Alberti, R. Biesuz, G. D'Agostino, G. Scarponi and M. Pesavento: Strong copper(II) species in estuarine and sea waters investigated by a method with high detection window. Talanta (2007), 71, 706
- M. Pesavento, R. Biesuz, G. Alberti, A. Profumo, G. D'Agostino: Speciation of copper(II) in natural water in the presence of ligands of high and intermediate strength. Chemical Speciation and Bioavailability (2004), 16 (1/2), 35
- G. Alberti, G. D'Agostino, G. Palazzo, R. Biesuz, M. Pesavento: Aluminium speciation in natural water by sorption on a complexing resin. Journal of Inorganic Biochemistry (2005), 99(9), 1779
- N. Cennamo, L. Zeni, G. D'Agostino, G. Porto, A. Biasiolo: Optical chemical fiber sensor for the detection of perfluorinated compounds in water - IEEE International Instrumentation & Measurement Technology Conference May 14-17, 2018 Houston, Texas, USA
- N. Cennamo, G. D'Agostino, F. Sequeira, F. Mattiello, G. Porto, A. Biasiolo, R. Nogueira, L. Bilro, L. Zeni: Molecular Imprinted Polymer on a D-shaped Plastic Optical Fiber for the selective detection of Perfluorooctanoate; EUROPT(R)ODE XIV - March 25-28, 2018, Naples
- G. D'Agostino; The parameters that govern leaching and transport: field measurements and laboratory tests - Conference of the Order of Geologists of the Lombardy Region - "Limits and opportunities in the use of advanced models in the risk analysis of contaminated sites"; Milan 26 May / 8 June 2016
- G. D'Agostino, N. Cennamo, R. Galatus, L. Bibbò, L. Zeni, M. Pesavento: An optical sensor for trinitrotoluene based on surface plasmon resonance in a plastic optical fiber-molecularly imprinted polymer. XXIV Congresso Nazionale della Divisione di Chimica Analitica della SCI: Gruppo Sensori 2013 - Sestri Levante (GE), 19 - 20 Settembre 2013
- G. D'Agostino, G. Alberti, R. Biesuz, M. Pesavento: Amperometric miniplatform for isopropyl -

9H – thioxanthone detection based on molecularly imprinted polymer. XXIV Congresso Nazionale della Divisione di Chimica Analitica della SCI – Sestri Levante (GE), 15 -19 Settembre 2013.

- M. Pesavento, G. D'Agostino, G. Alberti, R. Biesuz, A. Profumo, D. Merli: electrochemical platform for TNT based on screen printed cell and molecularly imprinted polymer as ionic medium. XVII AISEM Annual Conference. Brescia February 5-7, 2013
- M. Pesavento, G. D 'Agostino, G. Alberti, R. Biesuz ,: Strong complexation of lead (II) by light substances under environmental relevant conditions. XXIII National Congress of the Italian Chemical Society. Isola D'Elba (Italy) September 16-20, 2012
- V. Amendola, G. Alberti, G. Berbamaschi, R. Colleoni, G. D'Agostino, R. Biesuz: Receptors in solid phase: developing sensors for anionic radionuclides. XXIII National Congress of the Italian Chemical Society. Isola D'Elba (Italy) September 16-20, 2012
- M. Pesavento, G. Alberti, R. Biesuz, G. D'Agostino: Strong complexation of lead (II) by fulvic substances under environmental relevant conditions. XXIII National Congress of the Italian Chemical Society. Isola D'Elba (Italy) September 16-20, 2012
- G. D'Agostino, G. Alberti, R. Biesuz, M. Pesavento: Potentiometric sensor for atrazine based on a molecular imprinted polymer. XXI Congress of the Italian Chemical Society. Turin (Italy) 22-27 June 2003
- G. D'Agostino, G. Alberti, M. Pesavento: Selective adsorption of Atrazine on molecularly molded polymers. Separation Science Days. Rome (Italy) 15-16 December 2003.
- M. Pesavento, G. D'Agostino, G. Alberti: Molecular Imprinted Polymers as sensing membrane for direct electrochemical detection of pollutants. The 6th Workshop on Biosensors and BioAnalytical μ -Techniques in Environmental and Clinical Analysis. Roma (Italy) 8-12 October 2004
- G. Alberti, R. Biesuz, G. D'Agostino, M. Pesavento: Determination of total concentration and speciation of Pb (II) in estuarine and sea water samples. 7th International Congress of the Interuniversity Consortium "CHEMISTRY FOR THE ENVIRONMENT". Venice (Italy) 2-3 September 2004
- R. Biesuz, G. Alberti, G. D'Agostino, M. Pesavento: Metal ion speciation in antarctic sea. Mediterranean Conference on Chemistry of Aquatic Systems. Reggio Calabria (Italy) 4-8 September 2004
- R. Biesuz, G. Alberti, G. D'Agostino, M. Pesavento: A new sampling method for metal ion speciation in sea water by resin titration. Mediterranean Conference on Chemistry of Aquatic Systems. Reggio Calabria (Italy) 4-8 September 2004
- G. Alberti, R. Biesuz, G. D'Agostino, M. Pesavento: Speciation of Mn (II), Zn (II) and Cu (II) in tea infusion. Italian Chemical Society - XVIII National Congress of Analytical Chemistry. Parma (Italy) 19-23 September 2004
- G. Alberti, G. D'Agostino, G. Palazzo, R. Biesuz, M. Pesavento: Aluminium speciation in natural water by sorption on a complexing resin. Sixth Keele Meeting on Aluminium - Aluminium Lithosphere to Biosphere (and Back). Buçaco (Portugal) 26 February-02 March 2005
- M. Pesavento, R. Biesuz, G. Alberti, G. D'Agostino, G. Palazzo: Determination of free metal

ion concentration at very low level by sorption on complexing resin XXXII Annual Congress of the "Gruppo di termodinamica dei Complessi" XVI Italian-Spanish Congress on the Thermodynamic of metal Complexes. Udine , June 21-25 2005

- G. Alberti, R. Biesuz, G. D'Agostino, M. Pesavento: Investigation of the strong metal complexes in natural waters by sorption on a complexing resin. 10th Workshop on Progress in Analytical Methodologies in Trace metal Speciation. Luxembourg, 6-9 April 2005, p.31
- R. Biesuz , G. Alberti, G. D'Agostino, G. Palazzo, M. Pesavento: Characterization of the sorption of Pb²⁺ on different ion exchange resins for environmental application. XXXII Annual Congress of the "Gruppo di termodinamica dei Complessi" XVI Italian-Spanish Congress on the Thermodynamic of metal Complexes. Udine , June 21-25 2005
- M. Pesavento, R. Biesuz, G. Alberti, G. D'Agostino, G. Palazzo: "Speciation of metal ions in estuarine and seawater samples". XIX Congress of Analytical Chemistry. Pula (Cagliari), 11-15 September 2005
- G. D'Agostino, A. Ponti, G. Alberti, R. Biesuz: "Sensors based on biomimetic receptors for organic contaminants with electrochemical transduction" IX ANNUAL CONSORTIUM INCA Congress. Pisa 1-2 March 2007
- G. Alberti, R. Biesuz, G. D'Agostino, M. Pesavento: Fulvic acids as multimodal strong ligand for lead(II) in aqueous solutions. 41st IUPAC World Chemistry Congress. Turin (Italy) August 5-11, 2007
- M. Pesavento, G. Alberti, R. Biesuz, G. D'Agostino: Speciation investigation of trace metal ions using complexing resins as sensors for the free metal ion concentration in real samples. TraceSpec 2007-11th Workshop on Progress in Analytical Methodologies for Trace Metal Speciation. Münster (Germany) September 4-7, 2007
- R. Biesuz, G. Alberti, G. D'Agostino, M. Pesavento: Fulvic speciation of copper(II) in mixed solvent solutions and in grapes wines. XIV Euroanalysis. Antwerp (Belgium) September 9-14, 2007
- M. Pesavento, G. D'Agostino, M. Sturini: Gate effect of molecular imprinted polymeric membranes for specific sensors. 12th International Conference on Electroanalysis, ESEAC 2008 June 16 - 19, 2008
- G. D'Agostino, M. Pesavento, V. Kurdakova, D. Merli, A. Profumo: Specific electrochemical sensors for detecting explosives. Workshop "Light on the crime scene: forensic applications" and of the Meeting of the Forensic Analytical Chemistry group of the Analytical Chemistry division of the Italian Chemical Society. Bologna September 11, 2008
- M. Pesavento, G. D'Agostino, M. Sturini, R. Biesuz, G. Alberti: Evaluation of free metal ion concentration in complex matrices by a dynamic procedure on complexing resin columns, XXIII National Congress of the Italian Chemical Society. Sorrento (Italy), 5-10 July 2009
- Profumo, D. Merli, G. D'Agostino, M. Pesavento: Determination of aromatic nitroderivatives in soils and waters through electrodes chemically modified with SWCNT. XXI National Congress of Analytical Chemistry. The role of Analytical Chemistry in health protection. Arcavacata di Rende (CS) September 21 - 25, 2008

March 2019

The undersigned, aware that - pursuant to art. 76 of the d.p.r. n.445 / 200- false statements, falsified documents or the use of false documents are punished under the penal code and special laws, declares that the information is true.

The undersigned expresses his consent to the processing of personal data in compliance with the purposes and methods referred to in Legislative Decree n. 196/2003

Dott.Girolamo D'Agostino