

**CHRISTOPHE CORDELLA**

33 yo, Married, 1 children
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**ANALYTICAL CHEMIST /
CHEMOMETRICIAN**

PHD in Chemical Sciences
& Master in Chemistry

I'm looking for a JOB**Professionals**

Apr 2005 - Oct 2006

Chemical Engineer, Projects Leader Alpha-MOS France, ToulouseApplications Lab activities

- Development of analytical methods electronic noses and tongues technologies (gas sensors, quadrupole mass detector, liquid sensors and Fast-GC),
- Study of the chemistry of the sample for an optimal headspace development,
- Setup of experimental designs, application of DOE methodology,
- Development of chromatographic methods in gas phase (GC),
- Validation of the methods according to lawful texts (ICH Q2A&B, ISO), - Drafting of the protocols,
- feasibility studies, drafting of the studies' reports in French and English,
- Presentation to the group leader and CEO,
- Qualification of the instruments of the lab,
- Statistical data Processing,
- Specific software developments (exploitation of chromatograms, Kovats indices, peaks detection & integration, chemical databases)
- Contributions to the improvement of the operation of the laboratory,
- Respect of procedures quality assurance and H&S directives established at the laboratory..

Other activities

- Improvement of Analytical File Request (AFR),
- Improvement of the presentation of the statistical tools documents,
- Training of the foreign collaborators (US and China subsidiary companies),
- Training of the trade partners,
- Valorization of work by publications and/or communications by poster,
- Tests of the new software developed by the company.

Sept. 2003 – Feb.
2005

Research Engineer, Projects leader – AFSSA Sophia-Antipolis and University of Genova (Chemistry Department of Pharmaceutical and Food Technologies - DiCTFA)

- Study of sensory and physicochemical data on pasta products by statistical tools of "multiway" analysis (Tucker and Parafac models),
- Drafting, organization and planning of research projects, definition of the budget, ask for investments, purchase of analytical materials (DSC, GC and small equipments),
- Drafting of public invitations for public markets (technical part),
- R&D of analytical methods in gas chromatography coupled to various detectors (MS, ECD, FID) for the analysis of the pesticides,
- Extraction and analyzes of pesticides by SPME, SPE, and immunoaffinity,
- Extraction and analyzes of aroma in natural matrices,
- Follow-up of the analytical standards and recommendations (NF IN ISO, Cofrac),
- Technological and lawful Survey for the improvement of the analytical methods,
- Drafting of "Quality Procedures" for the "Analytical Chemistry and Physico-Chemical Contaminants" Unit of the laboratory,
- Metrology of the instruments of weighing and sampling,
- Respect of the procedures of quality insurance in application to the laboratory (reference frame ISO 17025)

Oct. 2000 – Aug.
2003

PHD Student, Chemical Engineer, Projects leader – AFSSA Sophia-Antipolis,

PHD in analytical chemistry and data-processing : Search and Development for techniques of detection of the adulteration of the foodstuffs.

- Study of the sugar and amino-acids composition of honeys by ionic chromatography for the detection of the frauds,
- Authentication of the floral origin of honeys by the aroma analysis by gas chromatography

(Headspace GC-MS, SPME GC-MS),

- Characterization and detection of the adulteration of foodstuffs (honeys, butter, olive oils) by Differential Scanning Calorimetry,
- Research of molecular markers of PDO olive oil from Nice by the aroma analysis by Headspace GC-MS,
- Proteins extraction by ultra-centrifugation and SDS-PAGE applied to the separation and the identification of the protean fractions.
- Study of the mineral compounds and determination of heavy metals by atomic absorption.

Academic

2003

1999

PHD in Chemical Sciences – Specialty : analytical chemistry, Sophia-Antipolis
very honorable with congratulations of the jury (best distinction)

Master in chemistry (Bac+5) « Formulation -Analyse -Qualité » (mention "well"), Nice/Sophia

- BPL/BPF, ISO, standards NF, in sector pharmaceutical, cosmetic, perfumes, aroma and flavors,
- Familiarization with OECD,
- Drafting of a report "Quality" on the French and European organizations for certification, edition of a communication folder presenting the list of the principal organizations delivering certifications and/or accreditation.

1996/1997

Bachelor (Bac+3) and Master (Bac+4) in molecular chemistry (mention "well"), Nice

Langue

English : Work daily in the current position with foreign customers and colleagues.
Reading and current writing
Spanish: Translation of technical texts

Computer tools

Current use of:

- Lotus Notes,
- Dreamweaver
- Database: Dbase, Interbase, MySQL, XML
- pack Office & other similar soft,
- Object programming languages: Delphi, Visual Basic
- Scientific & statistical soft : Statistica, Statgraphics plus, Matlab

Miscellaneous

2000 -2006

Work & publications

- Author or co-author of scientific publications in international journals,
- 5 conferences and 1 review on the analytical techniques used for detecting food adulteration and characterizing foods,
- Several techniques notes , **quality procedures and training supports**,
- Regular referee of Analytica Chimica Acta, J. Science Food and Agriculture and J. Agricultural and Food Chemistry.

Training

July - Sept. 1997

Stage au Chemical Laboratory, University of Kent at Canterbury, UK

- o Modeling of electrical field in the ITMS system (ion trap),
- o Adaptation and utilization of Mathieu's equations for creating graphical animation displaying the operation of a new 5 electrodes system.

July- Aug. 1996

Training course at the laboratory of quality control of the raw materials and scenting compositions, Charabot S.A. (06131 Grasse)

- o Raw material analysis des MP (flash pt, GC, IR, density), recording of the results in the customers database

Other interests

Bee-keeper (Non professional),
Traveling : USA, UK, Italy