

**EUROPEAN FORMAT
PER FOR CURRICULUM
VITAE**



PERSONAL INFORMATION

Name

GAUTIER Candice Natacha Anna

Nationality

French

Year of Birth

1990

WORK EXPERIENCE

- Dates (from –to)
- Name and address of employer
 - Type of company or field
 - Type of contract
- Main assignments and responsibilities

NOVEMBER – JANUARY 2016

Marie-Yasmine Dechraoui-Bottein, Radioecology Laboratory, International Atomic Energy Agency IAEA Environment Laboratories, Department of Nuclear Sciences and Applications, 4A Quai Antoine 1er, 98000 Monaco, Principality of Monaco.

Research institute
Internship

- Develop and perform in vitro metabolism of benthic harmful algal bloom biotoxins using enzymes or fish hepatocytes;
- Analyse biotoxins using the radioligand-based receptor binding assay;
- Assist in Radioecology experiments including maintenance of marine living organisms, control of experimental mesocosm physicochemical parameters.

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AUGUST - NOVEMBER 2016

Widersten Group, Department of Chemistry BMC, 75123 Uppsala, SWEDEN
Academic research laboratory

Master thesis part 2

My master thesis focused on the engineering of aldolases for biocatalytic carbonylation. I gained knowledge in protein engineering using **site directed mutagenesis**. I produced mutants with both QuickChange® Agilent and Q5® New England Biolabs protocols. I mastered protein expression in bacterial systems and protein purification techniques such as Immobilized Metal Affinity Chromatography (IMAC). I produced a library of enzyme clones and developed a screening assay using UV-spectroscopy for kinetic studies. I have also used a stopped-flow device for pre-steady state kinetic studies.

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APRIL-AUGUST 2016

iQAC CSIC, Pere Clapés' Group, Jordi Girona 18-26 08034 Barcelona, SPAIN
Research institute

Erasmus contract (Master thesis part 1)

I studied an aldolase mutant's capacity to catalyse aldol reactions with different aromatic substrates with a set-up using high performance liquid chromatography (HPLC).

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JUNE - AUGUST 2015

Widersten Group, Department of Chemistry BMC, 75123 Uppsala, SWEDEN
Academic research laboratory

Summer project

The aim of this project was to optimise the purification yield of a protein that showed 88 % of loss when purified by IMAC. It was speculated that the protein loss was due to sterical hindrance hence I added spacers of different lengths between the protein and its C-terminal histidine tag, with the aim to allow this tag to stand out and be more accessible for the protein binding to the nickel charged resin.

EDUCATION AND TRAINING

- Dates (from –to) Type of Institution providing education or training

2014-2016 Uppsala University

Master degree in Chemistry – Chemical Biology

- Main subjects and qualifications to be achieved

Program: Structure and functions of proteins, enzymology and bioorganic catalysis, protein engineering, molecular bioenergetics and biophysics, chemical molecular and drug design, biomaterials, nano-biotechnology and biosensors.

During my master studies I have gained knowledge in protein binding studies using Biacore SPR systems from GE Healthcare and the LigandTracer from Ridgeview Instruments. I have also learned to make protein crystals using the hanging-drop vapour diffusion technique. I acquired theoretical knowledge on different techniques that can be used to study protein structure and dynamics.

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November 2015 – September 2016
SensUs 2016

SensUs 2016 is the first international student competition organised by students on molecular biosensors for healthcare applications. The goal of SensUs 2016 was to develop a new biosensor for the detection of creatinine levels in blood plasma. Our team has built two prototypes using an enzymatic assay and molecular imprinted polymers. We have presented our prototypes in September in Eindhoven. I was in charge of the supervision and organisation of our teamwork and of the laboratory experiments for our prototype using molecular imprinted polymers.

2011-2014 Université Claude Bernard Lyon 1
Bachelor degree in Biochemistry

General biological studies; biochemistry and molecular biology; structure and function of proteins, lipids and carbohydrates; organic synthesis; green chemistry; laboratory techniques.

2009-2011
Medical School, Université Pierre et Marie Curie, Paris VI

Anatomy, physiology, cellular biology, biochemistry, organic chemistry, mathematics, physics.

2009
Baccalauréat (High school degree) in Science (specialty Biology)

Biology, physics, chemistry, mathematics and general classes.

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

FRENCH

OTHER LANGUAGES

- Reading/Writing/Verbal skills
- Reading/Writing/Verbal skills
- Reading/Writing/Verbal skills

ENGLISH (EXCELLENT/EXCELLENT/EXCELLENT), full proficiency

SPANISH (EXCELLENT/EXCELLENT/EXCELLENT), full proficiency

GERMAN Basic user level A1

SOCIAL SKILLS AND COMPETENCES

Live and work with others in a multicultural environment, occupying positions where communication is important and situations in which team work is essential (e.g. culture and sport) etc.

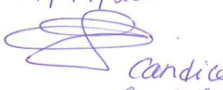
I grew up in Malaysia and Singapore and did a high-school exchange in Argentina in 2007 with American Field Service. Growing up in a multicultural environment thought me to be open-minded and to adapt easily in changing situations. I like meeting new people and have integrated well in all the research teams I have worked with. Participating in SensUs competition was a very rewarding experience that developed my communication and organizational skills. In parallel of my studies, I am involved in animal protection and work as a volunteer for PETA (People for the Ethical Treatment of Animals) to review and translate website articles in Spanish, English and French.

ORGANIZATIONAL SKILLS AND COMPETENCES

Computer, specific techniques etc.

Microsoft office WORD/EXCEL/POWERPOINT.
ChemDraw, Swiss PDB viewer, PyMOL, Simfit, ImageJ, SnapGene.
Clarity Chromatography Software (HPLC analysis).
Softmax Pro 7 Software (screening 96-well plates).
UVProbe Software (spectrophotometer for kinetic studies).

Date **14/11/2016** Signed **Candice Natacha Anna GAUTIER**

14/11/2016

Candice
Gautier