

## CURRICULUM VITAE

### Personal information

Surname / First name **Velasquez, Nicolas**  
Date of birth 05 May 1982 in Santiago, Chile  
Address (work) Sorbonne University, Laboratory of Physical Chemistr, Matter and Radiation, 4 place Jussieu 75252 Paris Cedex 05, Paris, France  
Address (home) 94 Rue Edouard Vaillant, 92300, Levallois Perret, France  
Email nicolas.velasquez@sorbonne-universite.fr  
Nationality Chilean, Swedish  
Gender Male

### Education Sweden

Dates 01 September 2018 - 28 August 2020  
Organisation Lund University, Sweden  
Title of qualification awarded "Naturvetenskaplig masterexamen" (Master Equivalent)  
Principal subjects Mayor: Physical chemistry. Thesis project: X-ray absorption spectroscopy study of an iron carbene complex: EXAFS analysis of  $\text{Fe}^{III}(\text{phtmeimb})_2\text{PF}_6$ . Project supervisor: Dr. Jens Uhlig  
Dates 01 September 2015 - 11 September 2018  
Organisation Lund University, Sweden  
Title of qualification awarded "Naturvetenskaplig kandidatexamen" (Bachelor Equivalent)  
Principal subjects Mayor: Physical Chemistry. Thesis project: Characterization of stratum corneum with X-ray scattering and NMR methods. Project supervisor: Prof. Dr. Emma Sparr

### Education Chile

Dates 2001 - 2002  
Organisation Universidad Catolica del Norte, Antofagasta  
Title of qualification awarded "Licenciado en Ciencias Geologicas" - Incomplete

### Work Experience France

Date November 2020 - Ongoing  
Name and address of employer CNRS - Sorbonne University, France  
Occupation or position held Ph.D. Student in Physical Chemistry - MSCA SMART-X ITN fellow  
Thesis: Hard x-ray core-hole-clock spectroscopy of biomolecules and organic polymers.

### Work Experience Sweden

Date Summer 2019  
Name and address of employer Lund University, Sweden  
Occupation or position held Junior research, internship

Main activities and responsibilities	Building of a table-top X-ray emission spectrometer with Von Hamos geometry (ongoing).
Date	Summer 2017
Name and address of employer	Lund University, Sweden
Occupation or position held	Undergraduate research, internship
Main activities and responsibilities	Extraction and characterization of stratum corneum.

### **Work Experience Chile**

Date	2010 - 2012
Name and address of employer	Farmacias SalcoBrand, Chile
Occupation or position held	Auxiliar de farmacia (Equivalent Receptarie/pharmacy assistant)
Main activities and responsibilities	In charge of assisting customers with medical and pharmaceutical advice, restocking and other administrative tasks.
Date	2009 - 2010
Name and address of employer	Casinos Enjoy, Chile
Occupation or position held	Asistente de Cambio (Equivalent VIP assistant)
Main activities and responsibilities	In charge of assisting casino VIP clients with their monetary needs.
Date	2008 - 2009
Name and address of employer	Casinos Enjoy, Chile
Occupation or position held	Asistente Boveda (Equivalent Vault assistant)
Main activities and responsibilities	In charge of assisting with money-counting duties in the vault at the casino.
Date	2008 - 2008
Name and address of employer	Falabella, Chile
Occupation or position held	Asistente de Ventas (Equivalent Retail salesman)
Main activities and responsibilities	Retail salesperson at the appliances department.
Date	2007 - 2008
Name and address of employer	Almacenes Paris, Chile
Occupation or position held	Asistente de Ventas (Equivalent Retail salesman)
Main activities and responsibilities	Retail salesperson at the sportswear department.
Date	2007 - 2008
Name and address of employer	Tiendas Ripley, Chile
Occupation or position held	Asistente de Ventas (Equivalent Retail salesman)

Main activities and responsibilities	Retail salesperson at the kitchen department.
Date	2006 - 2006
Name and address of employer	Tiendas Ripley, Chile
Occupation or position held	Asistente de Ventas (Equivalent Retail salesman)
Main activities and responsibilities	Retail salesperson at the kitchen department.
Date	2006 - 2006
Name and address of employer	Tiendas ABC, Chile
Occupation or position held	Asistente de Bodega (Equivalent Warehouse worker)
Main activities and responsibilities	Loading/Unloading goods to retail store.
Date	2005 - 2006
Name and address of employer	ARDI INC LTDA, Chile
Occupation or position held	Asistente de Bodega (Equivalent Warehouse worker)
Main activities and responsibilities	Loading/Unloading goods to retail store. Cleaning.
Date	2004 - 2005
Name and address of employer	Self-employed, Chile
Occupation or position held	Part-time English teacher
Main activities and responsibilities	Teach English to people who worked at the mines in the region of Antofagasta.

### Scientific output

Publications 1 publication: HERFD-XANES probes of electronic structures of iron II/III carbene complexes (PCCP), where I contributed to the error analysis of the pre-edge absorption data. DOI: 10.1039/c9cp06309a - 2020

### Teaching and outreach

Undergraduate Teaching Lab assistant for a spectroscopy course (Spektroskopi och Dynamik) where the students had to build their own absorption spectrometer.

### Other relevant skills

Measurements at international research facilities MAXIV, Sweden (Oct. 2019. Balder beamline - hard X-ray absorption measurements of diverse organometallic compounds), Soleil, France (Nov. 2019. Sextant beamline - Resonant inelastic X-ray scattering measurements of iron carbene compounds)

Software Python intermediate level. MATLAB beginner level. Larch/FEFF (X-ray absorption/fluorescence fitting/simulation software suite) intermediate level. ORCA beginner level. CAD intermediate level. ImageJ intermediate level. Linux intermediate level. MS Office. Chemdraw. LaTeX.

Instruments | Licenced user (at Lund University) of high-resolution microscope (Zeiss Axioplan). Solid-State NMR Spectrometer (Bruker 500). X-ray Scattering instrument (Saxslab Ganesha).

**Language Skills**

Mother tongue(s)  
Self-assessment  
European level<sup>(\*)</sup>

**Spanish**

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	
A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	

**Swedish**

**English**

**French**

<sup>(\*)</sup>Common European Framework of Reference (CEF) level

**Reference contacts**

Sorbonne University | Tatiana Marchenko, tatiana.marchenko@sorbonne-universite.fr - +33 1 44 27 62 22

Lund University | Emma Sparr, emma.sparr@fkem1.lu.se - +46-46-222 15 36

Lund University | Jens Uhlig, jens.uhlig@chemphys.lu.se - +46-46-22 27720

Lund University | Meiyuan Guo, meiyuan.guo@chemphys.lu.se - +46-73-953 09 71