CURRICULUM VITAE

PERSONAL INFORMATION

Name and Surname	ANNALISA PALLINI
Date of birth	08/08/1998
Nationality	Italian
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Profession	student

EDUCATION AND TRAINING

•11/2022- Present

PhD Course in Models and Methods for Materials and Environmental Sciences

UNIMORE, Department of Chemical and Geological Sciences, Modena (Italy).

Thesis title: “Understanding Composition-Structure-Properties Relationship to Design Ultra Strong AluminoSilicate Glasses”.

Thesis supervisor: Prof. Alfonso Pedone

•09/2022-28/10/2022

24 CFU – Teacher Training Course (D.M. 616)

University training course in anthropological, psychological, pedagogical disciplines (pedagogy, special pedagogy and didactics of inclusion) and in didactic methodologies and technologies.

Taken exams: Psychology of Education (M-PSI/04), Cultural Anthropology (M-DEA/01), General and Social Pedagogy (M-PED/01), Didactics Methodologies and Technologies (M-PED/03).

• 10/2020-21/07/2022

Master’s Degree in Chemcal Sciences student

UNIMORE, Department of Chemical and Geological Sciences, Modena (Italy).

Final grade: 110/110 cum laude and a special academic commendation, received the 21/07/2022

Exams average: 30/30. In particular are mentioned the following exams, for their relevance and affinity with the Master’s degrees thesis: Physical Chemistry of Material (30 cum laude), Physical Chemistry of Complex Systems (30 cum laude), Physcal Chemistry and Molecular spectroscopy (30 cum laude).

Thesis title: ”Developement of Empirical Interatomic Potentials for Borosilicate and

Aluminoborate Glasses”

Thesis supervisor: Prof. Alfonso Pedone

Attendance at “Introduction to Python Programming”, ONLINE course organized by Cineca and at the online seminar “Environmental issues in glass and chemical industry” organized by Unimore DSCG.

• 09/2017-09/2020

Bachelor’s Degree in Chemistry

UNIMORE, Department of Chemical and Geological Sciences, Modena (Italy)

Final grade: 110/110 cum laude, received the 18/09/2019

Thesis title: “Caratterizzazione di Vetri Fosfosilicatici ad Attività dismutasica per Azione antiossidante”

Thesis supervisor: Prof.ssa Gigliola Lusvardi

•09/2012-07/2017

Scientific Liceo High School Diploma

Liceo Scientifico R.Corso, Correggio (Italy)

Final grade: 100/100 cum laude, received the 11/07/2017

Participation and qualification in “Olimpiadi della Chimica” (individual), “Olimpiadi della Matematica” (individual, mixed team, women’s team), “Olimpiadi della Fisica” (individual).

Attendance at afternoon supplementary and specific courses of mathematics and physics.

WORK EXPERIENCE

•12/2021-07/2022

Intership in Computational Chemistry Laboratory

UNIMORE, Modena (Italy)

Intership at computational chemistry laboratory of Prof. Alfonso Pedone. In particular, development of an interatomic potential for borosilicate and aluminoborate glasses, simulation of mechanical properties, NMR and neutronic TDF.

•04/2020-08/2020

Internship in Inorganic Chemistry Laboratory

UNIMORE, Modena (Italy)

Internship at inorganic chemistry laboratory of Prof.ssa Gigliola Lusvardi. In particular, synthesis, functionalization and characterization of mesoporous bio glasses.

•09/2017

Internship 4

UNIPR, Parma (Italy)

Internship of 2 weeks and attendance at specific lessons at the Department of Mathematical, Physical and Informatic Sciences.

•07/2017-08/2017

Internship 3

Comune di Correggio, Spazio Giovani Casò, Correggio (Italy)

Intership of 2 months as social youth educator. In particular, planning of the weekly activities, workshops on social issues and assistance.

•06/2016-08/2016

Internship 2

Norma Abbigliamento Donna, Correggio (Italy)

Intership of 2 months as saleswoman in a clothing store. In particular, customer

reception, sales and accounting clerk, pricing and inventory compilation.

•06/2015-08/2015

Internship 1

Centro per l'Impiego di Correggio Correggio (Italy)

Intership of 2 months as employee in regional public agency. In particular, drafting of documents, data entry activities, management of office documentation, support for secretarial activities and general services.

MOTHER TONGUE(S)

Italian

FOREIGN LANGUAGE(S)

ENGLISH

• Understanding	C1 (*Listening and reading*)
•Writing	B2
•Speaking	B2

GERMAN

• Understanding	A2 (*Listening and reading*)
•Writing	A2
•Speaking	A2

LEVELS: A1-A2 *basic user*, B1-B2 *indipendent user* , C1-C2 *proficient user*

PERSONAL SKILLS

Good knowledge of chem laboratory instrumental techniques: chromatography (HPLC, GC), spectroscopy and spectrophotometry (ICP-OES, FT-IR, UV-VIS, XRF, XRPD).

Good mastery of Microsoft Office, Microsoft Power Point, Microsoft Excel.

Knowledge of OS Windows.

Knowledge of quantum chemical computational software (Gaussian) and classic chemical computation software (DL_POLY,GULP, LAMMPS).

Knowledge of programming language (Matlab, Python, Fortran).

Driving Licence B.

ADDITIONAL INFORMATION

Publications

Pedone, A., Bertani, M., Brugnoli, L., & Pallini, A. (2022). Interatomic potentials for oxide glasses: Past, present, and future. *Journal of Non-Crystalline Solids: X*, 100115.

Bertani, M., Pallini, A., Cocchi, M., Menziani, M. C., & Pedone, A. (2022). A new self-consistent empirical potential model for multicomponent borate and borosilicate glasses. *Journal of the American Ceramic Society*, *105*(12), 7254-7271.

Zambon, A., Malavasi, G., Pallini, A., Fraulini, F., & Lusvardi, G. (2021). Cerium containing bioactive glasses: a review. *ACS Biomaterials Science & Engineering*, *7*(9), 4388-4401.

Posters and speaking contributions

Participation at "XXI Giornata della Chimica dell'Emilia Romagna", 19 December 2022, Bologna (Italy).
Poster presentation with the title: "Development of a new Self-Consistent Empirical Potential Model for Multicomponent and Boron-containing Oxide Glasses".

Participation at the VII Congress of the Theoretical and Computational Chemistry Division of the Italian Chemistry Society, 21-23 September 2022, Modena (Italy).
Oral contribution with the title: "A New Self-Consistent Empirical Potential Model for Multicomponent Borate, Borosilicate and Aluminoborate Glasses".

Participation at the Workshop of the Theoretical and Computational Chemistry Division of the Italian Chemistry Society, 8 April 2022, Firenze (Italy).
Poster presentation with the title: "A New Self-Consistent Empirical Potential Model for Multicomponent Borate and Borosilicate Glasses".

Hobby

Study of piano (classical, modern and jazz repertoire) and solfeggio with the participation and qualification to some national competition.

Volunteer in Red Cross (Local Committee of Correggio). In particular, social service for children and elderly people, charity activities, operations on the territory (in association with Protezione Civile Nazionale), education activities. Title of face painter and maker-up in simulations and exams, and OPEM.

I authorize the processing of my personal data, pursuant to Article 13 of Legislative Decree No. 196/2003.