

# Europass Curriculum Vitae

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### Personal information

First name(s) / Surname(s)

Anna Tozzi

Nationality

y Italian

Date of birth 2

21 October 1948

Gender Female

# Relevant Professional Experience

Dates and number of months

1970-1973

Employer / Commissioner

CNR

Occupation or position held

Research fellow

Dates and number of months

1974-83

Employer / Commissioner

University of L'Aquila

Occupation or position held

Assistant Professor

Decription of tasks

- Teacher of Topology

- Teacher of General Mathematics

Dates and number of months

1984-today

Employer / Commissioner

University of L'Aquila

Occupation or position held

Professor in Geometry

Decription of tasks

### Teaching activities:

- Teacher of Topology
- Teacher of Algebraic Topology
- Teacher of Mathematical Logic
- Teacher of Geometry and Linear Algebra

# Research Acivities

- 2002-2009: Organiser and responsible of the double degree (Canadian and Italian) in Mathematics and Statistics
- 1998-2000: Responsabile dell'Unità Locale PRIN "Metodi costruttivi in Topologia, Algebra ed Analisi dei Programmi"
- 2000-2002: Responsabile dell'Unità Locale PRIN "Metodi costruttivi in Topologia, Algebra ed Analisi dei Programmi"
- 2002-2004: Responsible of the local Unit of the National research project "Metodi costruttivi in Topologia, Algebra e Tecnologia dell'Informazione"
- 2004-2006: Responsabile dell'Unità Locale PRIN "Metodi costruttivi in Topologia, Algebra e Tecnologia dell'Informazione"
- 2008-2010: membro dell'Unità di Padova del PRIN"Metodi costruttivi in Topologia, Algebra e Tecnologia dell'Informazione",
- 2012-today: membro dell'Unità di Padova del PRIN "Logical Methods of Information Management"
- 1994-2010: Organiser and scientific responsible of 5 International Conferences on "Categorical Topology" (L'Aquila 1994, Lowen 1996, L'Aquila 2002, Coimbra 2008, Azzorre 2010)
- 1986-2008: Organiser of several Scientific Seminars of outstanding professors in the fields of Topology, Category Theory, Algebraic Topology.
- Author of 32 scientific papers and 5 didactic publications

Dates and number of months 1996-2003

Employer / Commissioner

University of L'Aquila

Occupation or position held

Erasmus Responsible of the Faculty of Sciences

Description of tasks

- responsible of the EC-Canada project: ATLANTIS "New avenues in the teaching of Mathematics" (with Trieste, Coimbra, Louvain-la-Neuve, Halifax, British Columbia-Vancouver, York Toronto)
- responsible of the TEMPUS Phare project "Categorical Methods in Algebra and Computer Science"
- promoter of several bilateral agreements between EU universities
- promoter and responsible of the INTERLINK project "Double degree in Mathematics" with York University, Toronto, CA

Dates and number of months

2004-2018

Employer / Commissioner

University of L'Aquila

# Occupation or position held

Description of tasks

Vice-rector for the International Relations and Projects

- Responsible of the internationalisation of the University
- Promoter and organiser of double degrees
- Promoter of international PhDs, through specific agreements and regulations
- Responsible and organiser of hundreds Bilateral Agreements with EU and non-EU Universities
- Organiser of in/out students and staff mobility
- Advisor for the university staff in preparing project proposals (in all EU Programmes)

2019-today

# Position held

Rector's Consultant for the Internationalisation Policies

Description of tasks

- Contribution to the Strrategic Plan,
- Participation to international rankings,
- Seminars on EU policies and funding Programme
- Preparation of proposals,
- Support to project activities and preparation

2000-2016

- Main Achievements Author and responsible of TEMPUS projects: 21117-2000 "Increase of student mobility in the economic field" (Russia),
  - 27083-2006 "ICT curriculum reform in Lisbon perspective" (Russia),
  - 27129-2006 "Bologna process promotion in Tajikistan through the reorganisation of International Relations Offices" (Tajikistan),
  - 00471-2008 "Professionnalisation Des Enseignements En Travail Social" (Moldavia, Russia,
  - 00148-2008 "Gouvernance Numérique des Universités Marocaines" (Moroc)
  - 00071-2008 "Awareness raising, Interest development, Desire creation and Action stimulation on the Bologna Process expansion in Central Asian countries and Russia" (CA and Russia)
  - 159143-2009 "Using local resources for microregional development sustainable agribusiness and tourism in the southern Balkans" (Albania, Macedonia, Kosovo)
  - 158627-2009 "Development of the e-learning and distance learning courses and assessment in Biomedical Sciences in the Southern Caucasus" (Georgia, Armenia, Azerbaijan)
  - 510941-2010 "English For All in Academia, to Foster Education, Research and Innovation" (Israel)
  - 511172-2010 "Curriculum Invoking Bologna-aligned Education Leading to reform in Environmental Studies" (Central Asia)
  - 516721-2011 "Licence-Master professionnels en psychologie sociale pour intervenir auprès des publics migrants en Russie, Ukraine et au Kazakhstan" (Russia, Ukraine, Kazakhstan)
  - 516885-2011 "Entrepreneuriat et Valorisation de la Recherche", (Moroc, Tunis, Algeria)
  - 530154-2012 "Student Support and Development Services" (Georgia, Azerbaijan, Kazakhstan, Kyrgyzstan, Israel)
  - 543683-2013 "English as the Cornerstone of Sustainable Technology and Research", (Israel)
  - 543713-2013 « Moderniser la formation sur les Energies Renouvelables (ER) au Maghreb: Transfert de l'expérience UE » (Moroc, Tunis, Algeria)
  - 543802-2013 "Establishment of Multidisciplinary Innovative Centres for the Development of Virtual Laboratories (MICVL) in Biology and Medicine", (Georgia, Armenia, Azerbaijan)
  - 544046-2013 Career-Oriented Curricula Development for Road Vehicle Maintenance (Palestine)

Responsible of the CAPACITY BUILDING HE projects

- 561640-EPP-1-2015-1-AZ-EPPKA2-CBHE-JP "Advocacy Establishment for Students through Ombudsman Position" – AESOP
- 561966-EPP-1-2015-1-PS-EPPKA2-CBHE-JP Developing the Business and Economic research centers capacity at Palestinian Higher Institutions" – BERC (Palestine)
- 562006-EPP-1-2015-1-ES-EPPKA2-CBHE-JP "Implementing quality of education & training of the young Universities in rural area of Cambodia" – UNICAM
- 573879-EPP-1-2016-1-FR-EPPKA2-CBHE-JP INternationaliSation of master Programs In Russia and China in Electrical engineering INSPIRE
- 585596-EPP-1-2017-1-DE-EPPKA2-CBHE-JP Fostering Internationalisation in AgRicultural Engineering in Iran and Russia FARMER

Main achievements Author and coordinator of the CAPACITY BUILDING projects

### 2016-today

- 574099-EPP-1-2016-1-IT-EPPKA2-CBHE-SP" Paving the way to interregional mobility and ensuring relevance, quality and equity of access" PAWER
- 574049-EPP-1-2016-1-IT-EPPKA2-CBHE-JP"Modernization of the Curricula in sphere of smart building engineering Green Building" GREB
- 574055-EPP-1-2016-1-IT-EPPKA2-CBHE-JP"Development of Master Programme in Renewable Energy Sources and Sustainable Environment" – RENES
- 609764-EPP-1-2019-1-IT-EPPKA2-CBHE-SP "REgional COoperation in the field of recognition among ASIAn countries" RecoASIA
- 598726-EPP-1-2018-1-JO-EPPKA2-CBHE-JP"Multidisciplinary Skills for Artists' Entrepreneurship" MUSAE
- 618843-EPP-1-2020-1-IT-EPPKA2-CBHE-JP "Capacity Building in Sustainability for Architectural Heritage" - SAH

Responsible and organiser of the Erasmus Mundus Action2 projects:

- TOSCA (Central Asia)
- TOSCA II (Central Asia)
- TARGET (Central Asia)
- TARGET II (Central Asia)
- GATE (South-East Asia)
- PHOENIX (Middle East)

Author and coordinator of the Erasmus Mundus Action 2 projects:

- MAYA-NET (Central America)
- ASSUR (Syria)

Author and Coordinator of IPA-CBC-Adriatic project - 2°ord./0042/0

- "Know-How Enhancement for Sustainable Transportation Organization - KHE-STO".

Author and Coordinator of ENI-CBC-MED project -

- MEDiterranean Quadruple helix Approach to Digitalisation - MED-QUAD

Author and Coordinator of Erasmus+ Strategic Partnerships

- "How to win the challenge: Internationalising EQF level 5 HINGE"
- Building Reliable Effective and Aware DIsaster emergency and prevention managing skills" B-READI

Coordinator of 4 projects Erasmus + KA107 with target PCs in Asia, Midle East, Russia, Africa, Balkans Author and Coordinator with Municipality of L'Aquila of the project

DIGITAL'AQ, in the framework if the Programme DIGITAL CITIES (COSME)

Dates and number of months

2002-2010

Employer / Commissioner

Region Abruzzo

Occupation or position held

Consultant for European policies and Programmes

#### Description of tasks

- Explanation of EU policies
- Organisation of an Office for preparation and Management of international projects
- Contribution to Preparation of regional policies and programmes (ROP etc.)
- Preparation and coordination of EU and international projects (more than 30 projects financed within: INTERREG III and IV, research FPs, ESF, Culture 2000, LLP-Erasmus IP, Consortia Placement, Grundtvig, Daphne, etc.)
- Specific cooperation between the Region and University of L'Aquila for the development of targeted actions and skills especially for the management of lifelong learning for working and non working people
- Responsible of the ESF art.6 project FIT4WORK dealing with active ageing of over 55 workers.
- Responsible of the INTERREG IV project ESF6CIA, developing and promoting case studies in the field of employers' age management strategies for supporting longer working lives of older workers".
- Cooperation between the Region and University of L'Aguila in the implementation of the INTERREG IIIC project REGENERGY, dealing with renewable energies
- Cooperation between the Region and University of L'Aquila in the implementation of the FP6 project TRANSPOWER, dealing with organisation of local transportation with low emissions
- Author of a Manual for the preparation of projects within EU Programme
  - Professione Europa, edito dal II sole 24 Ore, 2007

# **Education and training**

Dates

1966-1970

Title of qualification awarded

MA degree

Principal subjects/occupational skills

Mathematics

covered

Name and type of organisation

University of L'Aquila

providing education and training

1970-1973

Title of qualification awarded

Research fellow

Principal subjects/occupational skills

Mathematics

Name and type of organisation providing education and training

# Personal skills and competences

Mother tongue(s)

Italian

**CNR** 

Other language(s)

Self-assessment

European level (\*)

**English French** 

Understanding				Speaking				Writing	
	Listening	Reading		Spoken interaction		Spoken production			
C1	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User
C1	Proficient User	C1	Proficient User	В1	Independent User	A2	Basic User	В1	Independent User

<sup>(\*)</sup> Common European Framework of Reference for Languages

# Other relevant skills and competences

Highly developed analytical and management skills;

Excellent team working skills (incl. International teams);

Excellent communication skills:

Excellent report writing skills.

- Public policy analysis;
- evaluation (ex-ante, ex-post) of EU-funded programmes and projects;
- Socio-economic analysis;
- Cost-benefit analysis.

#### In the fields of:

- Education financing issues incl. cost-sharing mechanisms and regulatory instruments;
- Vocational education and training;
- Adult learning;
- Internationalization of education systems;
- Regional policy;
- Higher education: internationalization, cooperation, Bologna process application, building up of EHEA and ERA, Europe 2020 and the role of universities;
- Research and Knowledge triangle application;
- Open Innovation 2.0;
- Promotion and development of Quadruple Helix;
- Industry 4.0.

### Additional information

## Study visits for scientific reasons (the recent ones)

- University of Prague (2007, 2008, 2009, 2010)
- York University Toronto (2007, 2008)
- Coimbra University (2009, 2010)
- Antwerpen University (2008, 2009)
- Berlin University (2010)
- Georgetown University (2011)
- Miami University (2011)

# Presentations/interventions in international scientific Conferences and Workshops (the main ones)

- International Conference in Categorical Topology 2010, Acorres University
- International Conference in Applied Mathematical Logic -2009, Genova
- International Conference in Categorical Topology 2014, Coimbra University

# Presentations/interventions in international Conferences and Workshops on EU Programmes and policies (the main ones)

- December 2018, Rome (IT), invited speaker on the annual Higher Education Reform Expert (HERE) conference on the theme "Capacity building for higher education reform: The impact of collaborative international projects"
- November 2018, Bergamo (IT), official rapporteur on Erasmus + CBHE, during the Infoday organised by the Italian National Agency
- May 2018, Bonn (DE), invited speaker on "Sustainability and impact of Erasmus + Strategic Partnerships Cooperation projects",
- September 2014, Baku (AZ), Student mobility and new ECTS Guide perspective
- December 2014, Kokshetav (KZ), The new Credit Mobility programme
- December 2012, Rome (IT): Good practices and outcomes of TEMPUS Programme
- December 2011, Ghent (BE): Trends for new Eramsus Mundus Programme
- December 2011, Bruxelles: Tempus coordinators' meeting, EACEA
- June 2011, Wroclaw (PL): Internationalisation of Higher Education System
- December 2010, Samarkand (UZ): Cooperation policies in the field of Higher Education,
- September 2010, Florence (IT): Development of university staff skills in preparing and managing Transnational projects, University of Florence
- June 2010, Beer Sheva (IL), Enhancing cooperation in Higher Educations System
- May 2010, L'Aquila (IT), the role of the University on the regional socio-economic development

#### Publications:

- 32 peer-reviewed papers, citation h-index 29
- 5 didactic publications

#### List of Publications

- [1] Rivestimenti e gruppoide fondamentale di uno spazio topologico, Boll:U.M.I. (4), 11 (1975), 623-637.
- [2] Isomorfismo di Hurewicz per i fibrati, Rend. di Mat. (1), 11 (1978), 115-125,
- [3] Final topological groups and coreflections, Rend. di Mat. (1), 1 (1981), 139-142,
- [4] On systems of cogenerators of epireflective subcategories, Rivista Mat. Univ. Parma (4), 9 (1983) 153-158.
- [5] Sistemi di Postnikov per i fibrati, Atti della Accademia delle Scienze di Torino, vol 116 (1982), 357-364.
- [6] On epidense subcategories of topological categories, Quaestiones Mathematicae, 6 (1983), 97-106,
- [7] On E-dense hulls and shape theory, General Topology and its Appl., Proc. Fifth Prague Topological Symposium, Prague 1981, Heldermann-Verlag, Berlin 1982, 223-238,.
- [8] On the lattice of epidense subcategories of a topological category, Lecture Notes in Mathematics 1060 (Springer-Verlag, Berlin 1984), 271-278,
- [9] On factorization structures and epidense hulls, Topology and its Applications 16 (1983), 69-80.
- [10] Dispersed factorization structures in procategories, Lecture Notes in Mathematics (Heldermann-Verlag, Berlin 1984), 567-581.
- [11] On characterization of (E,M)-structures in procategories, Rend. Circolo Mat. Palermo, 4, II(1984), 133-147.
- [12] US-spaces and closure operators, Rend. Circolo Mat. Palermo, 12, II(1984), 291-300.
- [13] On the category of supertopological spaces, Acta Univ. Carolinae, 2 (1986), 137-149, con O. Wyler.
- [14] Topological categories and closure operators, Quaestiones Mathematicae, 11 (1988), 323-337,
- [15] Completion of categories and initial completions, Cahiers de Topologie e Géom. Diff. Categ. XXX-2 (1989), 1-30,
- [16] Fibre-faithful maps and morphisms, York University Press (1992),
- [17] On w<sub>\alpha</sub>-compactness, Discrete Mathematics 108 (1992), 13-23,
- [18] Notes on Kuratowski-Mrowkà Theorems in point-free context, Cahiers de Topologie e Géom. Diff. Categ. XXXIII-1 (1992), 3-14,
- [19] Lexicographic sums and Fibre-Faithful Maps, Applied Categorical Structures 1 (1993), 59-83,
- [20] Equationally closed subframes and representation of quotient spaces, Cahiers de Topologie e Géom. Diff. Categ. XXXIV-3 (1993), 167-183,
- [21] Separation Axioms and Frame representation of some topological facts, Applied Categorical Structures 2 (1994), 107-118.
- [22] Generalized reflective cum coreflective classes in Top and Unif, Applied Categorical Structures 4 (1996), 57-68,
- [23] Completion and coproducts of nearness frames, University of Cape Town, Math. Dept. Ed. (1999), 177-186.
- [24] Clone segments of the Tychonoff modification of a space, Applied Categorical Structures, 8 (2000), 327-337,
- [25] A generalization of Herrlich's question on almost reflective and coreflective subclasses of Top and Unif, Applied Categorical Structures, 8 (2000), 393-406,
- [26] Regular Monomorphisms of Hausdorff Frames, Applied Categorical Structures, 9 (2001), 15-33,
- [27] A note on reconstruction of spaces and maps from lattice data, Quaestiones Mathematicae, 24 (2001), 55-63,
- [28] Local directedness and some categories of domains, in corso di stampa su KAM-DIMATIA, Praga 2002.
- [29] A monad for domains and other categories, Fachbereich Seminarberichte, Hagen 2003,
- [30] Continuous DCPOs as complete information Systems, KAM-DIMATIA Series, vol.581, 2002
- [31] Categorical Foundations, Special topics in Order, Topology, Algebra and Sheaf Theory, Cambridge University Press, Edited by M.C. Pedicchio and W. Tholen, 2004
- [32] Ideals in Heyting semilattices and open homomorphisms, Applied Categorical Structures, in Quaestiones Mathematicae, vol. 30, p. 391-405, ISSN: 1607-3606, 2007

# **Didactic Publications**

- [1] Introduzione alla Teoria della Forma, 1979.
- [2] Introduction to (E,M)-categories and (E,M)-functors, 1980. [3] On initial completions of concrete categories, 1982.
- [4] Development of a sustainable tourism, edito dal II sole 24 Ore, 2006
- [5] Professione Europa, edito dal II sole 24 Ore, 2007