

## PERSONAL INFORMATION

## Patrick Zecchin



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 <http://www.patrickzecchin.com>  <https://www.linkedin.com/in/patrickzecchin/en>

Sex Male | Date of birth 23 Sep 1992 | Nationality Italian

## PREFERRED JOB

## Data Scientist

## EDUCATION AND TRAINING

26/09/2014–19/10/2016

## Master degree (Mathematics)

EQF level 7

University of Milan

Via Cesare Saldini, 50, 20133 Milano (Italy)

<http://www.matematica.unimi.it/>

Functional analysis (6 ECTS) 26/30

Real analysis (9 ECTS) 27/30

Optimisation (6 ECTS) 29/30

Stochastic calculus (9 ECTS) 23/30

Mathematical modelling workshop (6 ECTS)

Numerical methods for partial differential equations (9 ECTS) 24/30

Operation research (9 ECTS) 30/30

Mathematical statistics (9 ECTS) 29/30

Seminars: StaTalk on Biostatistics (aprile 2015)

Master thesis: "Functional data clustering - an application to mobile network data", supervisors prof.ssa Alessandra Micheletti, dott.ssa Pia Maria Maccario

Final degree: 109/110

24/08/2015–22/01/2016

## Erasmus+

EQF level 7

Danmarks Tekniske Universitet

Anker Engelunds Vej 1, 2800 Lyngby Copenhagen (Denmark)

[www.dtu.dk](http://www.dtu.dk)

Algorithms in Bioinformatics (5 ECTS) 30/30

Computational tools for big data (5 ECTS) 30/30

Introduction to financial engineering (5 ECTS) 30/30

Mixed linear model for the analysis of correlated data (5 ECTS) 29/30

Time series analysis (5 ECTS) 29/30

Seminars: Wolfram Nordic Techonlogy Conference (october 2015)

20/07/2015–26/07/2015

## ECMI Modelling Week 2015

Instituto Superior Técnico de Lisboa, Lisboa (Portugal)

Development of a mathematical modelling project, in collaboration with other European students

12/09/2011–26/09/2014

## Bachelor degree (Mathematics)

University of Trento  
Via Sommarive 5, Povo, Trento, 38123 Trento (TN) (Italy)  
[www.unitn.it/dmath/](http://www.unitn.it/dmath/)

Calculus 1 (9 ECTS) 30/30  
Calculus 2 (9 ECTS) 28/30  
Calculus 3 (9 ECTS) 28/30  
Numerical analysis 1 (6 ECTS) 30/30  
Algebra (12 ECTS) 29/30  
Calculus of probability 1 (6 ECTS) 28/30  
Calculus of probability 2 (6 ECTS) 29/30  
Public understanding of science (6 ECTS) 28/30  
Ordinary differential equations (6 ECTS) 30/30  
Physics (mechanics) (9 ECTS) 27/30  
Physics (thermodynamics) (6 ECTS) 30/30  
Foundations of mathematical physics (12 ECTS) 28/30  
Logical foundations of mathematics (6 ECTS) 18/30  
Geometry 1 (linear algebra) (9 ECTS) 26/30  
Geometry 2 (topology) (9 ECTS) 27/30  
Geometry 3 (algebraic topology and complex analysis) (9 ECTS) 29/30  
Differential geometry (6 ECTS) 28/30  
Informatics (C language) (6 ECTS) 25/30  
English B1 (3 ECTS) approved  
Financial and investment models (8 ECTS) 27/30  
Functional programming (6 ECTS) 24/30  
Mathematical statistics (6 ECTS) 29/30

Bachelor thesis (6 ECTS: "Un'analisi del modello di cattura-ricattura" (mathematical statistics), supervisor prof. Pier Luigi Novi Inverardi  
Final degree: 107/110

11/09/2006–09/06/2011

### High school diploma

EQF level 4

L.S.S. "G.Galilei"  
Via S.Giacomo, 11, 37135 Verona (Italy)  
[www.galileivr.it](http://www.galileivr.it)

Scientific high school  
Final degree: 100/100

Thesis: "Fractus-a-um: un modo di immaginare la forma del cosmo e la forma di un fiume, dell'infinito e del finito" sugli insiemi frattali

13/09/2010–01/06/2011

### Course

Università di Verona  
Via dell'Artigliere 8, 37129 Verona (Italy)  
Progetto Lauree Scientifiche, getting ready for Mathematics Olympiad

23/08/2010–27/08/2010

### Course

ISTITUTI PARITARI FILIPPIN dei Fratelli delle Scuole Cristiane  
Via S.Giacomo, 4, 31017 Paderno del Grappa (TV) (Italy)  
Math topics, such as topology, graph theory, algebra, cryptography

14/09/2009–08/06/2010

### Course

Università di Verona  
Via dell'Artigliere, 8, 37129 Verona (Italy)  
Math topics (set theory, cardinality, etc.)

## WORK EXPERIENCE

15/06/2018–Present

### Data Scientist

Arnoldo Mondadori Editore  
Via privata Mondadori 1, 20090 Milan (Italy)  
[www.mondadori.it](http://www.mondadori.it)

Data scientist in the Mondadori Digital team. Main focus: NLP (word and text embeddings, similarities and clustering, recommendation), timeseries analysis, fostering a data culture.

Tools: Python, R, Elastic Search, NoSQL, bash, GIT.

09/01/2017–14/06/2018

### Analyst

Moviri  
Via Simone Schiaffino, 11, 20158 Milano (Italy)  
[www.moviri.com](http://www.moviri.com)

Consultant (analyst) in the analytics branch. Main focus on data science, machine learning, data reporting, data visualization.

Both national and international experience.

Tools: Python, R, Splunk, SQL, Tableau, Datameer, bash, GIT

**Business or sector** Information and communication

01/05/2013–01/06/2017

### Computer equipment operator

AliveMusica  
Piazzetta sant'Eufemia 1, 37121 Verona (Italy)  
<http://www.alivemusica.it/>

Collaboration with the ALiVe Music Academy, implementation and management of the website.

**Business or sector** Information and communication

29/02/2016–30/09/2016

### Data Scientist (internship)

TIM  
Via A. Olivetti, 10148 Torino (Italy)

Research and development sector. Use of R, Python, Tibco Spotfire.

Writing of "Functional data clustering – an application to mobile network data".

**Business or sector** Information and communication

02/07/2012–03/08/2012

### Programmatore web

Mediagroup s.r.l.  
Via delle Nazioni, 5, 37012 Bussolengo (Verona) (Italy)  
<http://www.bentobox.pro/>

Internship. Website building. HTML, CSS e PHP, Drupal 6.0, 7.0 and Wordpress.

**Business or sector** Information and communication

05/07/2010–23/07/2010

### Office clerk

INA ASSITALIA assicurazioni

Corso Porta Nuova, 11, 37122 Verona (Italy)

Internship

**Business or sector** Financial and insurance activities

## PERSONAL SKILLS

**Mother tongue(s)** Italian

**Foreign language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	IELTS FCE				
French	B1	B1	B1	B1	B1
	DELTA				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages - Self-assessment grid

**Communication skills** Ability in the exposition to different kind of audience (expert and not).

**Organisational / managerial skills** Organisational and team-working skills, time management, AGILE methodology.

**Job-related skills** Ability in problem solving and analytics techniques, advanced knowledge in statistics, probability, machine learning (supervised, unsupervised, deep). Continuous learner.

**Digital skills**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Digital skills - Self-assessment grid

Scientific software knowledge (R, Python, MatLab, SAS, Splunk, Mathematica, Tibco Spotfire)

Excellent knowledge of Microsoft Office (Word, Excel e PowerPoint)

Excellent knowledge of Pages, Numbers e Keynote

Knowledge of WebPublishing languages and softwares (HTML, CSS, CMS come WordPress, Drupal, Joomla)

General programming skills

**Driving licence** B

## ADDITIONAL INFORMATION

**Dati personali** Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

**Certifications**

- Elasticsearch 6 and Elastic Stack - In Depth and Hands On!Udemy, August 2018
- Convolutional Neural NetworkCoursera, January 2018

- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization Coursera, December 2017
- Neural Networks and Deep Learning Coursera, December 2017
- Structuring Machine Learning Projects Coursera, December 2017
- IELTS (band 7) British Council, June 2015
- FCE (B2) Cambridge School of English, April 2010
- DELF (B1) Alliance Française, May 2008






Patrick Zecchin

Mother tongue(s)  
Italian

Foreign language(s)  
English, French

## English

### Self-assessment of language skills






UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user

### Certificates and diplomas

Title	Awarding body	Date	Level*
IELTS	British Council Milano	11/06/2015	C1
FCE	Cambridge school of English	18/05/2010	B2

## French






### Self-assessment of language skills

UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
<b>B1</b> Independent user	<b>B1</b> Independent user	<b>B1</b> Independent user	<b>B1</b> Independent user	<b>B1</b> Independent user

### Certificates and diplomas

Title	Awarding body	Date	Level*
DEL F	Alliance Française	05/08/2008	B1

# Common European Framework of Reference for Languages - Self-assessment grid

		A1 Basic user	A2 Basic User	B1 Independent user	B2 Independent user	C1 Proficient user	C2 Proficient user
Understanding	 Listening	I can understand familiar words and very basic phrases concerning myself, my family and immediate concrete surroundings when people speak slowly and clearly.	I can understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance (e.g. very basic personal and family information, shopping, local area, employment). I can catch the main point in short, clear, simple messages and announcements.	I can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. I can understand the main point of many radio or TV programmes on current affairs or topics of personal or professional interest when the delivery is relatively slow and clear.	I can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar. I can understand most TV news and current affairs programmes. I can understand the majority of films in standard dialect.	I can understand extended speech even when it is not clearly structured and when relationships are only implied and not signalled explicitly. I can understand television programmes and films without too much effort.	I have no difficulty in understanding any kind of spoken language, whether live or broadcast, even when delivered at fast native speed, provided I have some time to get familiar with the accent.
	 Reading	I can understand familiar names, words and very simple sentences, for example on notices and posters or in catalogues.	I can read very short, simple texts. I can find specific, predictable information in simple everyday material such as advertisements, prospectuses, menus and timetables and I can understand short simple personal letters.	I can understand texts that consist mainly of high frequency everyday or job-related language. I can understand the description of events, feelings and wishes in personal letters.	I can read articles and reports concerned with contemporary problems in which the writers adopt particular attitudes or viewpoints. I can understand contemporary literary prose.	I can understand long and complex factual and literary texts, appreciating distinctions of style. I can understand specialised articles and longer technical instructions, even when they do not relate to my field.	I can read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialised articles and literary works.
Speaking	 Spoken interaction]	I can interact in a simple way provided the other person is prepared to repeat or rephrase things at a slower rate of speech and help me formulate what I'm trying to say. I can ask and answer simple questions in areas of immediate need or on very familiar topics.	I can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities. I can handle very short social exchanges, even though I can't usually understand enough to keep the conversation going myself.	I can deal with most situations likely to arise whilst travelling in an area where the language is spoken. I can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life (e.g. family, hobbies, work, travel and current events).	I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible. I can take an active part in discussion in familiar contexts, accounting for and sustaining my views.	I can express myself fluently and spontaneously without much obvious searching for expressions. I can use language flexibly and effectively for social and professional purposes. I can formulate ideas and opinions with precision and relate my contribution skilfully to those of other speakers.	I can take part effortlessly in any conversation or discussion and have a good familiarity with idiomatic expressions and colloquialisms. I can express myself fluently and convey finer shades of meaning precisely. If I do have a problem I can backtrack and restructure around the difficulty so smoothly that other people are hardly aware of it.
	 Spoken production	I can use simple phrases and sentences to describe where I live and people I know.	I can use a series of phrases and sentences to describe in simple terms my family and other people, living conditions, my educational background and my present or most recent job.	I can connect phrases in a simple way in order to describe experiences and events, my dreams, hopes and ambitions. I can briefly give reasons and explanations for opinions and plans. I can narrate a story or relate the plot of a book or film and describe my reactions.	I can present clear, detailed descriptions on a wide range of subjects related to my field of interest. I can explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.	I can present clear, detailed descriptions of complex subjects integrating sub-themes, developing particular points and rounding off with an appropriate conclusion.	I can present a clear, smoothly-flowing description or argument in a style appropriate to the context and with an effective logical structure which helps the recipient to notice and remember significant points.
Writing	 Writing	I can write a short, simple postcard, for example sending holiday greetings. I can fill in forms with personal details, for example entering my name, nationality and address on a hotel registration form.	I can write short, simple notes and messages. I can write a very simple personal letter, for example thanking someone for something.	I can write simple connected text on topics which are familiar or of personal interest. I can write personal letters describing experiences and impressions.	I can write clear, detailed text on a wide range of subjects related to my interests. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view. I can write letters highlighting the personal significance of events and experiences.	I can express myself in clear, well-structured text, expressing points of view at some length. I can write about complex subjects in a letter, an essay or a report, underlining what I consider to be the salient issues. I can select a style appropriate to the reader in mind.	I can write clear, smoothly-flowing text in an appropriate style. I can write complex letters, reports or articles which present a case with an effective logical structure which helps the recipient to notice and remember significant points. I can write summaries and reviews of professional or literary works.

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