Paolo Perrotta

Born in Lecce, Italy, on July 13th, 1969.

About Me

As a traveling software developer, mentor, and author, my career has led me to nearly 20 countries across four continents and a variety of cultures.

I have extensive experiences in planning and delivering trainings, workshops, speeches and keynote speeches on a wide array of software topics, ranging from programming languages to teamwork organization.

I'm one of the highest-rated instructors on Pluralsight, one of the foremost international providers of video trainings. Some of my courses garnered hundreds of thousands of paying viewers, and my course "How Git Works" stands out as the most commented-upon training on the platform.

I authored three critically acclaimed and commercially successful books. Both editions of "Metaprogramming Ruby" are widely recognized as indispensable resources for Ruby developers. "Programming Machine Learning" was lauded by a reviewer as a "Dragon Book for data scientists". I also contributed to the field through numerous magazine articles, including a popular monthly column.

I have decades of hands-on software development experience, spread across domains such as enterprise software, open source libraries, automotive, healthcare, large-scale web applications, and computer games. Notably, I contributed a key element of Hibernate, arguably the most popular Object-Relational Mapper in existence.

Much of my career has been devoted to educating others through training, mentoring, and coaching. I have guided teams and entire companies toward adopting modern development practices. Being an early advocate and adopter of Agile methodologies, I have actively participated in related conferences since 2003.

Degrees and Certifications

- *2002 - Bachelor's degree in Software Engineering at University of Bologna, earned with a Thesis on Agile Methodologies*

- *2007 - Certified JBoss Advanced J2EE Developer*

- *2018 - Certified Scrum Master*

Main Work Experiences

- **1998-2000 - Freelance Developer**

  I provided development services to multiple clients, including the Public Administration and *Hewlett-Packard Italy SpA.*, independently or under contract with consulting and development companies such as *Softech SRL*. My work spanned multiple enterprise software projects across diverse domains like social security and job competition management. I was responsible for gathering the initial requirements for a distributed healthcare system. Furthermore, I single-handedly developed software systems for the management of professional trainings and for workflow data reporting.

- **1998-2002: Open Source Software Team Leader**

  I served as the team leader, main designer, and developer within a geographically distributed team responsible for developing popular add-ons for computer games.

- **2000 - Freelance Architect and Technical Writer for *Magneti Marelli - FIAT***

  Working at *Studio Bettazzoni*, I contributed to the design of a modular C architecture for embedded automotive software. My responsibilities included aiding in the planning of the architecture and documenting the final specifications.

- **2001 - Contract Team Leader at *Valve Software***

  I led a small team tasked with creating the art assets for an official add-on to one of the best-selling computer games of all time.

- **2001 - Contract Developer and Team Leader at *Valve Software***

  I designed and developed the technical prototype of a monitoring system for network applications, converting a legacy C++ application into a Java distributed system.

- **2002 - Contract Consultant and Developer at *Electrex srl***

  I contributed to the design and development of a major European airport's energy consumption monitoring system. My responsibilities included designing the low-level communications layer to the hardware, as well as designing and developing the parallel scheduling and caching system. Additionally, I was responsible for creating the data visualization front-end.

- **2002 - Tutor at the *University of Bologna***

  While preparing for my bachelor's thesis, I served as a tutor for the laboratory of computer science, under the supervision of my advisor, Prof. Antonio Natali.

- **2002-2005 - Contract Consultant and Developer at *NCH* (now *TAS Group*)**

  I worked on a high-budget software project management system. I implemented a graph-based query language for the underlying data. I was responsible for designing and implementing a query system to expedite access to the back-end version manager. I developed substantial portions of the Swing client and the Business Model.

- *2005 -* **Contract Developer at (company withheld because of NDA)**

  I worked on a project management system and the underlying open source web framework.

- **2005-2006 - Contract Developer for *Il Mulino, SpA***

  I developed a Java client for managing the versioning of production data in book publishing projects.

- **2006 - Contract Consultant and Developer at *NCH* (now *TAS Group*)**

  I contributed to the development of Eclipse-based tools for implementing Service Oriented Architectures. The system included a BPEL editor for web service orchestration and additional editing facilities for an in-house scripting language.

- **2006 - Contract Quality Rater for *Google.***

  As a part-time Quality Rater, I was responsible for evaluating the quality of Google's search results.

- **2006-2007 - Open Source Contributor for *Jboss***

  I contributed a crucial element to Hibernate Annotations, JBoss' implementation of the EJB 3 specifications. The code I wrote was then repurposed as a foundational library of the Hibernate Validator project.

- **2007-2010 - Agile Team Coach at *YOOX***

  I assisted this large international e-commerce company in transitioning to Agile methods and a new technological platform. I coached the web services team as they adopted XP practices, and we redesigned parts of the website into a service-oriented architecture based on RESTful web services written in C#. After the successful initial test, other teams and the CTO requested our assistance to expand the use of Agile methodologies throughout the company.

- **2010 - Advisor at *Doochoo***

  I was part of the advisor's board for this small startup.

- **2010-2012 - Contract Organizational Coach with *agile42* for *Ericsson***

  As a member in a team of nine experienced software development coaches, I participated in an extensive, international endeavor to shift an entire department of this multinational corporation from conventional development practices to Agile methodologies. The successful transition, that spanned multiple months and continents, was one of the most significant efforts of its kind.

  Initially, I contributed to this project from Patras, Greece, before moving on to assignments in Napoli and Genova, Italy. In the role of a "coach of coaches", I honed the skills of the company's future internal Agile champions, facilitating their evolution towards a self-organized working model. My role also involved the delivery of dozens of workshops and the facilitation of meetings and retreats at all levels of the organization, from individual software development teams to C-level.

- **2012-2016 - Contract Agile Coach and Technical Mentor at Deutsche Börse**

    I provided my technical and organizational expertise to the team developing the new clearing system, one of the stock exchange's major projects in years. My contribution went all the way from writing code to helping reorganize the effort of a large team of developers.

    I provided one-on-one Java mentoring and pair-programming sessions to the developers. I offered regular training sessions and workshops multiple times per week. I facilitated essential meetings such as planning, demos, and retrospectives, and I provided key contributions to architectural and organizational decisions.

    As a champion of Agile methodologies within Deutsche Börse, I kickstarted and spread the usage of modern organizational approaches inside the company.

- **2016-2019 - Contract Technical Mentor at *Deutsche Bahn***

    As a mentor and internal trainer in Deutsche Bahn's offices in Frankfurt, I worked with developers on Java and JavaScript codebases. In the process, I contributed code to a train ticketing and booking system and an internal project management system.

- **2021 - Contract Consultant at *Auton***

    During this short consultancy, I helped the company move their code repository and practices from Subversion to Git.

Trainings

I delivered numerous training sessions on topics related to software development, ranging from basic software alphabetization, to programming languages training, to advanced development practices (TDD, refactoring…) and high-level work organization (Lean, Agile methods, portfolio management). I consistently received top marks and highly positive feedback from my students.

Below is a selection of training sessions that I have led independently of the consulting jobs mentioned above.

2007

- *Java language training* at *Prototipo* (Imola, Italy)

- *4-days Hibernate training* at *QBR Team* (Milan, Italy)

- *4-days JBoss training* for *Red Hat* (Oslo, Norway)

- *4-days JBoss training* for *Red Hat* (Utrecht, Netherlands)

- *2-day Ruby on Rails training* at *Sioux* (Eindhoven, Netherlands)

2008

- *4-days JBoss open training* for *Red Hat* (Ghent, Belgium)

- *4-days JBoss open training* for *Red Hat* (Milan, Italy)

- *4-days JBoss open training* for *Red Hat* (Milan, Italy)

- *72-hours Java training* for Red Oddity (Bolzano, Italy)

2009

- *4-days Hibernate open training* for *Red Hat* (Milan, Italy)

- *4-days Hibernate open training* for *Red Hat* (Rome, Italy)

- *4-days Hibernate open training* for *Red Hat* (Milan, Italy)

- *4-days Hibernate training* at *Selecta* (Reggio Emilia, Italy)

- *40-hours Java training* for Red Oddity (Bolzano, Italy)

- ***72-hours Programming training*** *for Red Oddity* (Bolzano, Italy)

2010

- ***2-days Java training*** *for Red Oddity* (Bolzano, Italy)

2011

- ***3-days Scrum training*** at *Gecod* (Bologna, Italy)

- ***4-days JBoss training*** at *Selecta* (Reggio Emilia, Italy)

- ***4-days Java training*** at *Selecta* (Reggio Emilia, Italy)

- ***4-days Product Owner training*** at *Gecod* (Bologna, Italy)

2012

- ***2-days Ruby training at Vimond*** (*Bergen*, Norway)

- ***2-days Ruby training at Develon*** (*Bologna*, Italy)

2013

- ***2-days training on Agile Development*** *for Red Oddity* (Bolzano, Italy)

- ***2-days training on Agile Organizations*** *for Red Oddity* (Bolzano, Italy)

2015

- ***1-month Ruby training*** *at Qwinix* (Mysuru, India)

2020

- **2-days training on *"Understanding Git"*** for *EGSolution* (delivered online)

Sessions and Workshops

I have facilitated hundreds of training sessions and workshops, primarily within the scope of my consulting or coaching roles. I led hundreds of meetings, ranging from team retrospectives to C-level retreats.

Below is a selection of sessions that I conducted separately from my consulting roles.

2007

- ***1- day session: "Ruby on Rails: Hot or Not?"***, at *Sioux* (Eindhoven, Netherlands)

2011

- ***"Agile and Cost Reduction"***, private session at *BHP Billiton* (Singapore)

2012

- ***"Agile and Cost Reduction"***, private session at *BHP Billiton* (Singapore)

2015

- ***"Agile and Cost Reduction"***, private session at *BHP Billiton* (Singapore)

- ***"Agile and Cost Reduction"***, private session at *Petronas* (Kuala Lumpur, Malaysia)

- ***"Becoming an Agile Coach"***, one-day public training (Tokyo, Japan)

- ***"Metaprogramming Ruby"***, one-day public training (Tokyo, Japan)

2017

- ***"Understanding Git"***, half-day training for RGI (Torino, Italy)

2019

- ***"Machine Learning"***, *Esprit R&D Conference* (Barcelona, Spain)

2021

- ***"Git: Staying Out of Trouble"***, private session at Xerox (delivered online)

Books

I authored three critically acclaimed books. Originally written in English, these books have been translated to Japanese, German, and Chinese.

Below is a list of editions and translations.

- **Metaprogramming Ruby** (Pragmatic Programmers, 2010). ISBN 1934356476

- メタプログラミング**Ruby** (ASCII Media Works, 2010), ISBN 4048687158 (Japanese translation of *Metaprogramming Ruby*)

- **Ruby元编程** (Huazhong University of Science and Technology Press, 2010) (Chinese translation of *Metaprogramming Ruby*)

- **Metaprogramming Ruby 2** (Pragmatic Programmers, 2014). ISBN 1941222129

- メタプログラミング**Ruby** (O'Reilly Japan, 2015) ISBN 4873117437 (Japanese translation of *Metaprogramming Ruby 2*)

- **Ruby元编程 第2版** (Huazhong University of Science and Technology Press, 2012) (Chinese translation of *Metaprogramming Ruby 2*)

- **Programming Machine Learning** (Pragmatic Programmers, 2020). ISBN 978-1680506600

- **Machine Learning für Softwareentwickler** (Dpunkt.Verlag GmbH, 2020). ISBN 386490787X (German translation of *Programming Machine Learning*)

- 机器学习编程 (China Machine Press, 2021) (Chinese translation of *Programming Machine Learning*)

I have contributed to multiple books through reviews, technical assessments, and individual chapters, including:

- On request by the publisher, I was a technical review on *Polished Ruby Programming*, by J. Evans (Packt Publishing, 2021) ISBN 1801072728 (r)

- On request by the publisher, I provided a review to *Accelerating Server-Side Development with Fastify,* by M. Spigolon, M. Sinik, M. Collina (Packt Publishing, 2023) (I provided a review on request by the publisher.)

- On request by the curators, I contributed a chapter to *Software People ... Work From Home*, by S. Kämper and M. Nogens (Self-published on Leanpub, 2022)

Magazine Articles

I have published well over a hundred articles and editorial reviews in multiple magazines.

For approximately seven years, I curated an ongoing series of regular columns columns for Internet Magazine (published by Edizioni Master), where I discussed technology trends and the evolution of the internet.

I have given interviews about my freeware projects to various print magazines.

I translated dozens of articles from English to Italian for the Italian edition of *Dr, Dobbs' Journal*, published by Edizioni Master in 1999.

Below is a selection of my articles and columns.

• *Java e le classi interne* (*IoProgrammo 2*, Ed. Master, 1995)

• *JavaBeans: raccogliamo i chicchi sparsi* (*IoProgrammo 4*, Ed. Master, 1995)

• *Come scrivere filtri grafici in Java* (*IoProgrammo 2*, Ed. Master, 1997)

• *Strutture dati dinamiche in Java* (*IoProgrammo 4*, Ed. Master, 1997)

• *JDBC: Raccogliamo i risultati* (*IoProgrammo 13*, Ed. Master, 1998)

• *JDBC: Java e i database vanno a nozze* (*IoProgrammo 16*, Ed. Master, 1998)

• *Conversioni implicite ed esplicite tra tipi primitivi* (*IoProgrammo 22*, Ed. Master, 1999)

• *Swing: gli eventi di Java al microscopio* (*IoProgrammo 21*, Ed. Master, 1999)

• *JRadioButton* (*IoProgrammo 23*, Ed. Master, 1999)

• *MVC* (*IoProgrammo 24*, Ed. Master, 1999)

• *Costruttori e distruttori* (*IoProgrammo 25*, Ed. Master, 1999)

• *Static: parola chiave, oggetti e direttive* (*IoProgrammo 26*, Ed. Master, 1999)

• *Incapsulamento* (*IoProgrammo 27*, Ed. Master, 1999)

• *Progettare e modificare le classi in Java* (*IoProgrammo 28*, Ed. Master, 1999)

• *Usare i package in Java* (*IoProgrammo 29*, Ed. Master, 1999)

• *Gli array in Java* (*IoProgrammo 30*, Ed. Master, 1999)

- *L'universo delle librerie* (*IoProgrammo 31*, Ed. Master, 1999)

- Multiple articles about the Internet and pop culture for *Win Magazine*, Ed. Master, 1999.

- Two articles about the Internet and pop culture for *Cuore*, Ed. Master, 1999.

- *Java 3D* (*IoProgrammo 32*, Ed. Master, 2000)

- *Ereditarietà in Java* (*IoProgrammo 33*, Ed. Master, 2000)

- *Java e il polimorfismo* (*IoProgrammo 34*, Ed. Master, 2000)

- *I tranelli del polimorfismo in Java* (*IoProgrammo 35*, Ed. Master, 2000)

- *Classi astratte e interfacce* (*IoProgrammo 37*, Ed. Master, 2000)

- *Le collezioni di oggetti* (*IoProgrammo 38*, Ed. Master, 2000)

- *Le trappole delle liste* (*IoProgrammo 40*, Ed. Master, 2000)

- *Insiemi e confronti* (*IoProgrammo 43*, Ed. Master, 2001)

- *Le mappe* (*IoProgrammo 44*, Ed. Master, 2001)

- *Recensione: Hands On Java CD* (*IoProgrammo 52*, Ed. Master, 2001)

- Two articles about the Internet and pop culture for *Idea Web*, Ed. Master, 2002.

- Opinion column for *Go! Online / Internet Magazine*, Ed. Master, from 1999 to 2003.

- *Oggetti intelligenti* (*IoProgrammo 76*, Ed. Master, 2004)

- *Senza Rete* (regular last-page column for *Internet Magazine*, Ed. Master, from 2000 to 2004)
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- *Design Patterns: Proxy* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Template Method* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Null Object* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Adapter* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Façade* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Command* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Composite* (*IoProgrammo*, Ed. Master, 2007)

- *Design Patterns: Value Object* (*IoProgrammo*, Ed. Master, 2007)

- *Rails To Italy 2007* (*IoProgrammo*, Ed. Master, 2007)

- *Il tuo prossimo linguaggio* (*IoProgrammo*, Ed. Master, 2007)

- *Un'applicazione web istantanea con Rails* (*IoProgrammo*, Ed. Master, 2008)

- *Ruby on Rails: oggetti e relazioni* (*IoProgrammo*, Ed. Master, 2008)

- *Ruby on Rails: una performance da ricordare* (*IoProgrammo*, Ed. Master, 2008)

- *Ruby on Rails: login senza fatica* (*IoProgrammo*, Ed. Master, 2008)

- *Il computer nella nuvola* (*IoProgrammo*, Ed. Master, 2008)

- *Caro Blog* (regular last-page column for *Internet Magazine*, Ed. Master, from 2004 to 2007)

Online Articles

I have authored dozens of posts, papers, guest interviews, and guest articles for online publication. Below is a small selection.

- *The Virtual Clock test pattern* (2002, revised and re-published in 2013) *[https://ducktypo.blogspot.com/2013/12/the-virtual-clock-test-pattern.html]*

- *Pay-as-you-go Bundler* (2010, published in *PragPub*) [*currently unavailable*]

- *The Ruby Metaprogramming Spell Book* (2010) *[https://ducktypo.blogspot.com/2010/08/metaprogramming-spell-book.html]*

- *Reinforcement Learning Versus Supervised Learning* (2018, published in *PragPub*) *[currently unavailable]*

- *The Problem with Accuracy* (2020) *[https://levelup.gitconnected.com/the-problem-with-accuracy-3670891b908e]*

- *Grokking the Cross Entropy Loss* (Published in *Level Up Coding,* 2020) *[https://nusco.medium.com/of-gradients-and-matrices-1b19de65e5cd]*

- *Of Gradients and Matrices* (2020) *[https://levelup.gitconnected.com/grokking-the-cross-entropy-loss-cda6eb9ec307]*

- *This Is Machine Learning, Part 1: Learning vs. Coding* (Published in *The* Startup, 2020) *[https://medium.com/swlh/this-is-machine-learning-part-1-learning-vs-coding-789343df1e30]*

- *This Is Machine Learning, Part 2: Supervised Learning* (Published in *The* Startup, 2020) *[https://medium.com/swlh/this-is-machine-learning-part-2-supervised-learning-94a0c6f5f33a]*

- *Killer Combo: Softmax and Cross Entropy* (Published in *Level Up Coding,* 2020) *[https://levelup.gitconnected.com/killer-combo-softmax-and-cross-entropy-5907442f60ba]*

- *Neural Networks Visualized* (Published in *Level Up Coding*, 2020) *[https://levelup.gitconnected.com/neural-networks-visualized-6cc657f9d7c5]*

- *Google Colab - The First Few Steps* (Published in *The Pragmatic Programmers*, 2020) *[https://medium.com/pragmatic-programmers/google-colab-the-first-few-steps-ee1bdfee3415]*

Online Courses

I have published several courses with *Pluralsight.com*, one of the world's leading providers of online training. Watched by hundreds of thousands of students, my courses rank among the highest-rated among the thousands on the platform. Below is a list of my online courses.

- *How Git Works* (2015, last revised in 2021)

- *Mastering Git* (2016, last revised in 2020)

- *Design Patterns Playbook: Structural Patterns* (2017)

- *Git: The Big Picture* (2019, last revised in 2021)

- *How Machine Learning Works* (2019)

- *Ruby 2: The Big Picture* (2020, revised in 2021)

- *Ruby 2: Getting Started* (2020)

- *C# 9: Getting Started* (2021)

- *Object-oriented Programming in Java SE 17* (2022)

- *Ruby 2: The Big Picture* (2023)

I was also a tech reviewer on multiple trainings from other authors, including:

- *C# The Big Picture*, by Mike Woodring, (2021)

- *Debugging Java SE 17*, by Craig Golighly, (2022)

- *Git Branching and Merging*, by Craig Golightly, (2023)

- *Working with Data in Ruby 3*, by Raphael Alampay, (2023)

- *Ruby on Rails 7 Active Record Models*, by Raphael Alampay, (2023)

- *Rust The Big Picture*, by Mike Woodring (in progress)

- *Creating Layouts with CSS*, by Matt Henry (in progress)

Conference Speeches

I have delivered approximately a hundred speeches and keynote addresses at software conferences and events. I have also been a speaker at internal company events, trainings, and workshops.

I participated in the selection of submitted talks for several conferences. I was among the promoters and organizers of the Ex Machina Conference held in Bologna, Italy, in 2019. I organized multiple private meetups to share experiences and speeches.

Below is a curated list of some of my speeches.

2007

- ***"State of Rails"***, *RailsToItaly* (Pisa, Italy)

2008

- **"Processo al DB"**, with M. Finelli and others, *Italian Agile Day 2008* (Bologna, Italy)

- **"The BDD Live Show"**, with R. Bettazzoni, *Italian Agile Day 2008* (Bologna, Italy)

- **"Why Portals Failed"**, *Convegno Turismatica* (Lecce, Italy)

2009

- **“Da SOAP a REST”**, *Italian Agile Day* (Bologna, Italy)

- **“State of Ruby”**, *XPUG Meeting* (Bologna, Italy)

2010

- **“Metaprogramming Ruby”**, *Linux Day* (Ferrara, Italy)

- **“A Metaprogramming Spell Book”**, *RubyKaigi* (Tsukuba, Japan)

- **“Da SOAP a REST”**, *Alt.NET Conference* (Milan, Italy)

- **Keynote**, *Italian Agile Day* (Genova, Italy)

2011

- **“Java Viene da Marte, Ruby da Venere”**, *Better Software* (Florence, Italy)

- **“Java Is From Mars, Ruby Is From Venus”**, *Conferencia Rails* (Madrid, Spain)

- **“Why Agile”**, *Ericsson Agile Day* (Napoli, Italy)

- **“The Revenge of method_missing()”**, *EuRuKo* (Berlin Germany)

- **“A Metaprogramming Spell Book”**, *Italian Ruby Day* (Verona, Italy)

- **“A Metaprogramming Spell Book”**, *Hubble Lunch&Learn* (London, UK)

- **“Java Viene da Marte, Ruby da Venere”**, *Programmers in Padua* (Padova, Italy)

2012

- **“A Short History of Software Engineering”**, *Barcelona Ruby Conference* (Barcelona, Spain)

- **“Ruby for Java People”**, *Roots Conference* (Bergen, Norway)

- **“The Revenge of method_missing()”**, *Madison Ruby* (Madison, WI, USA)

- **“Java Viene da Marte, Ruby da Venere”**, *UGIALT.NET Conference* (Milan, Italy)

15

2013

- ***"Thinking in Ruby for Java People"***, *XP:Agile Meetup* (Trondheim, Norway)

- ***"Don't Trust Your Brain"***, *Joy of Coding* (Rotterdam, Netherlands)

- ***"Your Brain on Software"***, *Ancient City Ruby* (St. Augustine, FL, USA)

- ***"Hunters and Gatherers"***, keynote at *Barcelona Ruby Conference* (Barcelona, Spain)

- ***"The Revenge of method_missing()"***, *Jacksonville Ruby Meetup* (Jacksonville, FL, USA)

2014

- ***"A Problem with Frogs"***, *Barcelona Agile Conference* (Barcelona, Spain)

- ***"A Problem with Frogs"***, *eurucamp* (Berlin, Germany)

- ***"The Frog Problem"***, private delivery to Fortune 500 CTOs (Amsterdam, Netherlands)

- ***"The Frog Problem"***, private delivery to Fortune 500 CTOs (Hong Kong)

- ***"Come Funziona (Davvero) Git"***, *Linux Day Ferrara* (Ferrara, Italy)

- ***"Evolving Code"***, *Hashrocket Lunch&Learn* (Jacksonville, FL, USA)

- ***"The Frog Problem"***, *Ruby Lungdunum* (Lyon, France)

2015

- ***"Wrapping Your Head Around Git"***, *DaWanda Workshop* (Berlin, Germany)

- ***"Wrapping Your Head Around Git"***, *Garden City Ruby* (Bangalore, India)

- ***"The Meaning of (Artificial) Life"***, *Madison+ Ruby* (Madison, WI, USA)

- ***"Wrapping Your Head Around Git"***, private delivery *at Qwinix* (Mysuru, India)

- **"A Metaprogramming Spell Book",** private delivery *at Qwinix* (Mysuru, India)

- **"Your Brain on Software"**, *Mysore Ruby Meetup* (Mysuru, India)

- **"The Frog Problem"**, private delivery at BHP Billiton (Singapore)

- **"Refinements, The Worst Feature You Ever Loved"**, *Red Dot Ruby* (Singapore)

- **"A Metaprogramming Spell Book"**, *RubyConf Australia* (Melbourne, Australia)

- **"Refinements, The Worst Feature You Ever Loved"**, *RubyKaigi* (Tokyo, Japan)

- **"Wrapping Your Head Around Git"**, *Trondheim Developer Conference* (Trondheim, Norway)

2016

- **"Refinements, The Worst Feature You Ever Loved"**, *RubyConf Italy* (Verona, Italy)

- **"Refinements, The Worst Feature You Ever Loved"**, *RubyConf Australia* (Brisbane, Australia)

- **"Understanding Git"**, *Rails Israel* (Tel Aviv, Israel)

- **"Understanding Git"**, *NoSlides Conference* (Bologna, Italy)

- **"Unconventional Computing"**, *Ancient City Ruby* (St. Augustine, FL, USA)

2017

- **"Machine Learning Explained to Humans"**, *XPUG Meeting* (Bologna, Italy)

2018

- **"Machine Learning Explained to Humans"**, *GrillRB* (Wrocław, Poland)

- **"Machine Learning Explained to Humans"**, *XPUG Meeting* (Bologna, Italy)

- **"Machine Learning Explained to Humans"**, *RubyC* (Kyiv, Ukraine)

- **“Machine Learning Explained to Humans”**, *RubyConf AU* (Sydney, Australia)

- **“Generational Adversarial Networks”**, *RUG Meeting* (Berlin, Germany)

2019

- **“Deep Learning: A Better AI”**, *Do IT Better* (Reggio Emilia, Italy)

- **“Why Agile”**, *Esprit R&D Conference* (Barcelona, Spain)

- **“A Deep Learning Adventure”**, *Plone Conference* (Ferrara, Italy)

- **“A Deep Learning Adventure”**, *RubyKaigi* (Fukuoka, Japan)

- **“Machine Learning Explained to Humans”**, *XP Meetup* (Trento, Italy)

2020

- **“Dreaming of Intelligent Machines”**, *RubyConf Paris* (Paris, France)

2021

- **“The Meaning of (Artificial) Life”**, *Codebar* (online)

2022

- **“Dreaming of Intelligent Machines”**, private delivery at *Gucci* (Milan, Italy)

- **“The Meaning of (Artificial) Life”**, private delivery at *Gucci* (Milan, Italy)

- **“Machine Learning Explained to Humans”**, private delivery at *Gucci* (Milan, Italy)

- **“Understanding Git”**, private delivery at *Gucci* (Milan, Italy)

- **“Why Agile”**, *Leanbit Event* (Padova, Italy)

- **“Roasting the Duck – A talk about Ruby and types”**, *RubyConf TH* (Bangkok, Thailand)

- ***"Machine Learning Explained to Humans"***, private delivery at *Hubble* (online)

- ***"Machine Learning Explained to Humans"***, *ML Modena* (Modena, Italy)

- ***"How GPT Works"***, keynote at *RubyDay IT* (Verona, Italy)

- ***"How GPT Works"***, *Technorama NL* (Utrecht, Netherlands, in preparation)

Languages

- Italian: Native speaker
- English: Proficient (C2 equivalent)
- Spanish: Basic (A1 equivalent)