Curriculum Vitae Cosimo Munari

Informazioni personali

Nome e cognome	Cosimo-Andrea Munari
Nazionalità	Italiana, Svizzera
Luogo di nascita	Codogno, Italia
Data di nascita	23.01.1984
Email	cosimo.munari@bf.uzh.ch

Competenze linguistiche

Italiano	Madrelingua
Inglese	Esperto (C2)
Tedesco	Intermedio (B2)

Curriculum studiorum

2011–2015	**Dottorato in Matematica** ETH Zurigo, Svizzera Tesi: Measuring risk beyond the cash-additive paradigm Supervisori: Profs. Martin Schweizer e Walter Farkas Esaminatori: Profs. Damir Filipović e Alexander Schied
2010–2011	**Master in Finanza** (A cum laude) Collegio Carlo Alberto, Torino, Italia
2007–2010	**Laurea Magistrale in Matematica** (110/110 cum laude) Università di Milano, Italia
2004–2007	**Laurea in Matematica** (110/110 cum laude) Università di Milano, Italia
2003–2004	**Studente in Filosofia** Università San Raffaele, Milano, Italia
1998–2003	**Diploma di Maturità Classica** (100/100 cum laude) Liceo Ginnasio M. Gioia, Piacenza, Italia

Esperienza professionale

2023–oggi	**Direttore scientifico** Center for Finance and Insurance Università di Zurigo, Svizzera
2017–2023	**Professore assistente in Finance and Insurance** Dipartimento di Banking and Finance Università di Zurigo, Svizzera
2017–2023	**Membro accademico** Swiss Finance Institute Università di Zurigo, Svizzera
2015–2017	**Ricercatore** Dipartimento di Banking and Finance Università di Zurigo, Svizzera

Premi e riconoscimenti

1. **Wiley Top-Cited Article 2020-2021**. Conseguito per l'articolo "Risk measures based on benchmark loss distributions" pubblicato in Journal of Risk and Insurance

2. **CASF Best Paper Prize 2018**. Conseguito per la presentazione "Risk measures based on benchmark loss distributions" alla X Conference in Actuarial Science and Finance on Samos

3. **YITP Research Prize 2017**. Conferito dall'Associazione di Fondazioni e di Casse di Risparmio Spa durante il XVIII Workshop on Quantitative Finance organizzato dall'Università di Milano Bicocca

4. **Walter Saxer Prize 2016**. Conferito dalla ETH Zurigo Walter Saxer Association per premiare eccellenti tesi di dottorato nel campo assicurativo

5. **Carlo Alberto Prize 2010**. Esenzione completa dalle tasse di iscrizione al Master in Finance organizzato dal Collegio Carlo Alberto a Torino e sponsorizzato da Banca Intesa

Monografie scientifiche

1. Koch-Medina, P., Munari, C.: *Market-Consistent Prices: An Introduction to Arbitrage Theory*, Birkhäuser Basel, 2020

Articoli scientifici

1. Farkas, W., Koch-Medina, P., Munari, C.: Capital requirements with defaultable securities, **Insurance: Mathematics and Economics**, 55, 58-67, 2014

2. Farkas, W., Koch-Medina, P., Munari, C.: Beyond cash-additive risk measures: When changing the numéraire fails, **Finance and Stochastics**, 18, 145-173, 2014

3. Koch-Medina, P., Munari, C.: Law-invariant risk measures: Extension properties and qualitative robustness, **Statistics & Risk Modeling**, 31, 215-236, 2014

4. Farkas, W., Koch-Medina, P., Munari, C.: Measuring risk with multiple eligible assets, **Mathematics and Financial Economics**, 9, 3-27, 2015

5. Koch-Medina, P., Moreno-Bromberg, S., Munari, C.: Capital adequacy tests and limited liability of financial institutions, **Journal of Banking & Finance**, 51, 93-102, 2015

6. Koch-Medina, P., Munari, C.: Unexpected shortfalls of Expected Shortfall: Extreme default profiles and regulatory arbitrage, **Journal of Banking & Finance**, 62, 141-151, 2016

7. Koch-Medina, P., Munari, C., Šikić, M.: Diversification, protection of liability holders and regulatory arbitrage, **Mathematics and Financial Economics**, 11, 63-83, 2017

8. Koch-Medina, P., Munari, C., Svindland G.: Which eligible assets are compatible with comonotonic capital requirements?, **Insurance: Mathematics and Economics**, 81, 18-26, 2018

9. Gao, N., Leung, D., Munari, C., Xanthos, F.: Fatou property, representations, and extensions of law-invariant risk measures on general Orlicz spaces, **Finance and Stochastics**, 22, 395-415, 2018

10. Koch-Medina, P., Munari, C., Šikić, M.: A simple characterization of tightness for convex solid sets of positive random variables, **Positivity**, 22, 1015-1022, 2018

11. Baes, M., Koch-Medina, P., Munari, C.: Existence, uniqueness, and stability of optimal payoffs of eligible assets, **Mathematical Finance**, 30, 128-166, 2020

12. Bignozzi, V., Burzoni, M., Munari, C.: Risk measures based on benchmark loss distributions, **Journal of Risk and Insurance**, 87, 437-475, 2020

13. Baes, M., Munari, C.: A continuous selection for optimal portfolios under convex risk measures does not always exist, **Mathematical Methods of Operations Research**, 91, 5-23, 2020

14. Gao, N., Munari, C.: Surplus-invariant risk measures, **Mathematics of Operations Research**, 45, 1342-1370, 2020

15. Gao, N., Munari, C., Xanthos, F.: Stability properties of Haezendonck-Goovaerts premium principles, **Insurance: Mathematics and Economics**, 94, 94-99, 2020

16. Arduca, M., Koch-Medina, P., Munari, C.: Dual representations for systemic risk measures based on acceptance sets, **Mathematics and Financial Economics**, 15, 155-184, 2021

17. Munari, C.: Multi-utility representations of incomplete preferences induced by set-valued risk measures, **Finance and Stochastics**, 25, 77-99, 2021

18. Bellini, F., Koch-Medina, P., Munari, C., Svindland, G.: Law-invariant functionals on general spaces of random variables, **SIAM Journal on Financial Mathematics**, 12, 318-341, 2021

19. Bellini, F., Koch-Medina, P., Munari, C., Svindland, G.: Law-invariant functionals that collapse to the mean, **Insurance: Mathematics and Economics**, 98, 83-91, 2021

20. Burzoni, M., Munari, C., Wang, R.: Adjusted Expected Shortfall, **Journal of Banking & Finance**, 134, 106297, 2022

21. Liebrich, F.B., Munari, C.: Law-invariant functionals that collapse to the mean: Beyond convexity, **Mathematics and Financial Economics**, 16, 447-480, 2022

22. Munari, C., Weber, S., Wilhelmy, L.: Capital requirements and claims recovery: A new perspective on solvency regulation, **Journal of Risk and Insurance**, 90, 329-380, 2023

23. Arduca, M., Munari, C.: Fundamental theorem of asset pricing with acceptable risk in markets with frictions, **Finance and Stochastics**, 27, 831-862, 2023

24. Koch-Medina, P., Munari, C.: Qualitative robustness of utility-based risk measures, **Annals of Operations Research**, in stampa, 2023

Articoli scientifici in preparazione

1. Arduca, M., Munari, C.: Risk measures beyond frictionless markets, inviato

2. Amarante, M., Liebrich, F.-B., Munari, C.: Range convexity: Probabilities, risk measures, and games, inviato

3. Munari, C., Plückebaum, J., Weber, S.: Robust portfolio selection under Recovery Average Value at Risk, inviato

4. Herdegen, M., Munari, C.: An elementary proof of the dual representation of Expected Shortfall, inviato

5. Liebrich, F.-B., Munari, C.: A simple proof of the automatic Fatou property for law-invariant risk measures, in preparazione

6. Bergesio, A., Koch-Medina, P., Munari, C.: Optimal demand for insurance under limited liability, in preparazione

7. Koch-Medina, P., Munari, C., Svindland, G.: Pricing and exercising American options in a market-consistent way, in preparazione

8. Herdegen, M., Khan, N., Munari, C.: On loss-sensitive risk measures, in preparazione

9. Liebrich, F.-B., Munari, C.: The fundamental theorem of capital allocation, in preparazione

Finanziamenti alla ricerca

1. Membro junior del gruppo di ricerca del Prof. W. Farkas presso il Dipartimento di Banking and Finance dell'Università di Zurigo. Il gruppo ha ricevuto un finanziamenti dal **National Centre of Competence in Research** grant NCCR FinRisk per il progetto "Financial Valuation and Risk Management". Il finanziamento è menzionato nella referenza 2 nella lista di pubblicazioni di cui sopra.

2. Membro junior del gruppo di ricerca del Prof. P. Koch-Medina presso il Dipartimento di Banking and Finance dell'Università di Zurigo. Il gruppo ha ricevuto un finanziamenti dal **Swiss National Science Foundation** grant 51NF40-144611 per il progetto "Capital Adequacy, Valuation, and Portfolio Selection for Insurance Companies". Il finanziamento è menzionato nelle referenze 1, 2, 3 e 4 nella lista di pubblicazioni di cui sopra.

3. Vincitore del Young Investigator Training Program al XVIII Quantitative Finance Workshop organizzato dall'Università di Milano Bicocca nel gennaio 2017. Il premio è stato conferito dall'**Associazione di Fondazioni e di Casse di Risparmio Spa** e prevedeva il supporto finanziario per un soggiorno di ricerca di un mese presso il Dipartimento di Startistica e Metodi Quantitativi dell'Università di Milano Bicocca. Il finanziamento è menzionato nella referenza 12 nella lista di pubblicazioni di cui sopra.

4. Membro senior del Center for Finance and Insurance presso il Dipartimento di Banking and Finance dell'Università di Zurigo. Il centro ha ricevuto finanziamenti dal **Swiss National Science Foundation** grant 162613 per il progetto "The Valuation of Insurance Companies". Il finanziamento è menzionato nella referenza 11 nella lista di pubblicazioni di cui sopra.

5. Membro senior del Center for Finance and Insurance presso il Dipartimento di Banking and Finance dell'Università di Zurigo. Il centro ha ricevuto finanziamenti dal **Swiss National Science Foundation** grant 100018-189191 for the project "Value-maximizing Insurance Companies: An Empirical Analysis of the Cost of Capital and Investment Policies". Il finanziamento è menzionato nelle referenze 19 e 23 nella lista di pubblicazioni di cui sopra.

Organizzazione di conferenze

1. Membro del comitato organizzatore locale della conferenza Finance Meets Insurance, organizzata dall'Università di Zurigo, l'Università della Svizzera Italiana e l'Università di Ginevra e svoltasi a giugno 2019 presso il Swiss Re Centre for Global Dialogue in Rueschlikon (Svizzera)

2. Membro del comitato organizzatore della conferenza Set Optimization for Applications organizzata dall'Università di Bilkent e svoltasi a giugno 2022 in Ankara (Turchia)

3. Organizzatore della sessione Risk Management for Insurance nella 32esima edizione della European Conference on Operations Research organizzata dall'Università di AAlto e svoltasi a luglio 2022 in Espoo (Finlandia)

Partecipazione a conferenze

1. Multi-asset capital requirements, International Symposium of Mathematical Programming, Politecnico di Berlino, luglio 2012.

2. Risk measures and capital requirements with general reference assets, Risk Day, ETH Zurigo, settembre 2012.

3. Risk measures and capital requirements with general reference assets, ETH Post/Doctoral Seminar in Mathematical Finance, ETH Zurigo, settembre 2012.

4. Beyond cash-additive risk measures: capital efficiency and default risk (**su invito**), Seminario de Analisis Funcional, Università di Murcia, febbraio 2013.

5. Measuring risk beyond the cash-additive paradigm, RiskLab PhD Seminar, ETH Zurigo, maggio 2014.

6. What is a risk measure? (**su invito**), Zurich Graduate Colloquium, Zurigo, maggio 2014.

7. Problems and pitfalls of cash-additive risk measures, ETH Post/Doctoral Seminar in Mathematical Finance, ETH Zurigo, maggio 2014.

8. Beyond cash-additive risk measures: when changing the numéraire fails, Bachelier Finance Society, World Congress, Bruxelles, giugno 2014.

9. Risk measures with multiple eligible assets, Set Optimization Meets Finance, Free University of Bozen-Bolzano, settembre 2014.

10. Do coherent risk measures take a liability holders' perspective?, Bachelier Finance Society, World Congress, New York, luglio 2016.

11. Diversification, protection of liability holders and regulatory arbitrage, 18th Workshop on Quantitative Finance, Università di Milano Bicocca, gennaio 2017.

12. The theory of capital adequacy tests, DiSMeQ Seminar, Università di Milano Bicocca, febbraio 2017.

13. The theory of capital requirements, DiSMeQ Seminar, Università di Milano Bicocca, marzo 2017.

14. Challenging Expected Shortfall (**su invito**), Colloquium of the Institute of Mathematical Statistics and Actuarial Science, Università di Berna, aprile 2017.

15. Challenging Expected Shortfall (**su invito**), Workshop on Financial Stability, Credit Risk and Default, Politecnico di Kaiserslautern, giugno 2017.

16. Fatou property, representations and extensions of law-invariant risk measures on general Orlicz spaces (**su invito**), 1st Italian Meeting on Probability and Statistics, Politecnico di Torino, giugno 2017.

17. Comonotonic risk measures in a world without risk-free assets, Insurance: Mathematics and Economics Conference, Politecnico di Vienna, luglio 2017.

18. Do coherent risk measures take a liability holders' perspective?, Vienna Congress on Mathematical Finance, WU Vienna, settembre 2017.

19. Measures of financial risk: a review of the theory, Set Optimization for Applications, WU Vienna, settembre 2017.

20. Risk measures in mathematical finance (**su invito**), Financial Mathematics Seminar, Università Ryerson di Toronto, novembre 2017.

21. Comonotonic risk measures in a world without risk-free assets (**su invito**), Department Seminar on Statistics and Actuarial Science, Università di Waterloo, novembre 2017.

22. Existence, uniqueness and stability of optimal portfolios of eligible assets, 19th Workshop on Quantitative Finance, Università di Roma Tre, gennaio 2018.

23. Surplus-invariant risk measures (**su invito**), Model Uncertainty and Robust Finance, Università di Milano, marzo 2018.

24. Existence, uniqueness and stability of optimal portfolios of eligible assets (**su invito**), Research Seminar of the Institute for Statistics and Mathematics, WU Vienna, marzo 2018.

25. Risk measures based on benchmark loss distributions, 10th Conference in Actuarial Science and Finance on Samos, Università dell'Egeo, giugno 2018.
26. Existence, uniqueness and stability of optimal portfolios of eligible assets (**su invito**), Stochastic Finance Seminar, Università di Warwick, giugno 2018.
27. Benchmark loss distributions in insurance regulation (**su invito**), 29th European Conference on Operations Research, Valencia, luglio 2018.
28. Robust portfolio selection under regulatory constraints (**su invito**), Workshop on New Frontier Areas in Financial Analytics, Fields Institute Toronto, maggio 2019.
29. Risk measures based on benchmark loss distributions, Insurance: Mathematics and Economics Conference, Poltecnico di Monaco, luglio 2019.
30. How natural are law-invariant pricing rules? (**su invito**), Annual Meeting of the Association of Swiss Actuaries, Lucerna, agosto 2019.
31. Robust portfolio selection under regulatory constraints, Vienna Congress on Mathematical Finance, WU Vienna, settembre 2019.
32. Duality for risk functionals on Orlicz spaces (**su invito**), Dynamics, Equations and Applications, Università di Cracovia, settembre 2019.
33. Law-invariant functionals beyond bounded positions, 21st Workshop on Quantitative Finance, Università di Napoli Parthenope, gennaio 2020.
34. Solvency capital requirements and recovery of liabilities (**su invito**), New Challenges in the Interplay between Finance and Insurance, Oberwolfach Virtual Meeting ottobre 2020.
35. Multi-utility representations of incomplete preferences induced by set-valued risk measures (**su invito**), Learning Tools and Applied Quantitative Methods for Decision Making, Università di Bozen-Bolzano, dicembre 2020.
36. Capital requirements and claims recovery: A new perspective on solvency regulation (**su invito**), Virtual Seminar in Insubria & Bicocca, maggio 2021.
37. Capital requirements and claims recovery: A new perspective on solvency regulation, Insurance: Mathematics and Economics Conference, luglio 2021.
38. Fundamental theorem of asset pricing with acceptable risk in markets with frictions (**su invito**), Mathematical Finance Seminar, Università di Bielefeld, maggio 2022.
39. The limitations of law invariance (**su invito**), 3rd Italian Meeting on Probability and Statistics, Università di Bologna, giugno 2022.
40. Fundamental theorem of asset pricing with acceptable risk in markets with frictions (**su invito**), Stochastic Finance Seminar, Università di Warwick, giugno 2022.
41. Market-consistent pricing with acceptable risk (**su invito**), De Finetti Risk Seminar, Università di Milano, novembre 2022.
42. Capital requirements and claims recovery (**su invito**), Verona Workshop in Financial Mathematics, Università di Verona, dicembre 2022.
43. Market-consistent pricing with acceptable risk (**su invito**), Oberseminar Finanz- und Versicherungsmathematik, LMU Monaco, febbraio 2023.
44. Fundamental theorem of asset pricing with acceptable risk in markets with frictions (**su invito**), 4th Spring Colloquium on Probability and Finance, Università di Padova, aprile 2023

45. Fundamental theorem of asset pricing with acceptable risk in markets with frictions (**su invito**), Workshop: Risk Measures and Uncertainty in Insurance, Leibnizhaus, Hannover, maggio 2023.

46. Capital requirements and claims recovery (**su invito**), XLVII Annual Meeting of the Italian Association for Mathematics Applied to Social and Economic Sciences, Università di Milano Bicocca, settembre 2023.

47. Fundamental theorem of asset pricing with acceptable risk in markets with frictions (**su invito**), Workshop on New Challenges in the Interplay between Finance and Insurance, Oberwolfach Mathematical Institute, ottobre 2023.

Supervisione di studenti di dottorato

1. Maria Arduca: Risk measures in markets with frictions, PhD in Statistics and Mathematical Finance, Università di Milano Bicocca, 2021

2. Andrea Bergesio: Frictional costs in insurance, PhD in Finance, Università di Zurigo, 2022

Supervisione di studenti di master

1. David Annoni: The impact of climate risk on the behavior of insurance stocks, Master in Banking and Finance, Università di Zurigo, 2022

2. Mariia Bogdanova: The replicating portfolio approach in market-consistent valuation, Master in Banking and Finance, Università di Zurigo, 2021

3. Giada Bordogna: No-arbitrage conditions on general topological spaces, Master in Mathematics, ETH Zurigo, 2013 (with W. Farkas)

4. Fabio Brambilla: Expectiles as market risk measures: Estimation and sensitivity analysis, Master in Business and Economics, Università di Zurigo, 2019

5. Xin Cao: Value at Risk in portfolio selection, Master in Economics and Business Administration, Università di Zurigo, 2019

6. Nicola Cassani: Optimal investment strategies for insurance firms under regulatory constraints, Master in Banking and Finance, Università di Zurigo, 2022

7. Yu Chen: Callable bonds in internal models for insurers: Pricing and hedging, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2018 (with P. Middelkamp)

8. Inés Dinh: Gender as a risk factor in the calculation of insurance premiums and benefits, Master in Management and Economics, Università di Zurigo, 2018

9. Tobias Enders: Risk measures and tail risk, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2017 (with P. Koch-Medina)

10. Simon-Pierre Gadoury: Performance analysis and comparison of portfolio immunization strategies, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2020

11. Angela Geiges: On the accuracy of time scaling of risk, Master in Banking and Finance, Università di Zurigo, 2022

12. Dominique Gilli: Option pricing by Monte Carlo simulation, Master in Banking and Finance, Università di Zurigo, 2021

13. Samir Hauser: An empirical analysis of the the impact of MiFID II tick size rules on stock trading, Master in Banking and Finance, Università di Zurigo, 2022

14. Valentine Huber: Market-consistent valuation of CAT bonds, Master in Economics, Università di Zurigo, 2021
15. Raphael Jakob: Market-consistent valuation and insurance premia, Master in Banking and Finance, Università di Zurigo, 2018
16. Raphael Keller: Capital requirements and claims recovery: A numerical analysis, Master in Banking and Finance, Università di Zurigo, 2022
17. Tianzhang Li: Measuring the risk level of Chinese and Japanese stock markets with Value at Risk, Master in Banking and Finance, Università di Zurigo, 2021
18. Xian Li: Backtesting Expected Shortfall with multinomial Value at Risk tests, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2020
19. Yanpei Lin: An empirical study of Loss Value at Risk with applications to portfolio risk management and catastrophic risk, Master in Banking and Finance, Università di Zurigo, 2020
20. Huanyu Liu: Efficient investment strategies for private equity firms in the Chinese internet market, Master in Banking and Finance, Università di Zurigo, 2022
21. Antoine Lyson: Law-invariant risk measures, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2015 (with W. Farkas)
22. Juan Pablo Marin Salazar: Insurance linked securities, Master in Business and Economics, Università di Zurigo, 2018
23. Zita Marossy: Frequency analysis for detection of financial market cycles in risk factor models, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2020
24. Manuel Moser: Estimation and backtesting techniques for measures of risk, Master in Banking and Finance, Università di Zurigo, 2021
25. Markus Sven Mueller: Backtesting forecasting methods of Value at Risk and Expected Shortfall, Master in Banking and Finance, Università di Zurigo, 2019
26. Stefanie Muller: Risk measures on Orlicz spaces, Master in Mathematics, ETH Zurigo, 2012 (with W. Farkas)
27. Borislav Panorov: A comparative study of demand drivers for life insurance in Western and Eastern Europe, Master in Banking and Finance, Università di Zurigo, 2018
28. Zhe Peng: Technical pricing for motorcycle insurance portfolios, Master in Business and Economics, Università di Zurigo, 2020
29. Marco Henriques Pereira: Monte Carlo simulation and its applications to finance, Master in Business Administration, Università di Zurigo, 2021
30. Yannong Qu: Risk estimation based on extreme value theory, Master in Banking and Finance, Università di Zurigo, 2020
31. Alberto Residori: Pricing CAT bonds using extreme value theory, Master in Banking and Finance, Università di Zurigo, 2019
32. Mariangela Rizzo: Risk measures in market models with transaction costs, Master in Mathematical Engineering, Politecnico di Milano, 2013 (with C. Sgarra)
33. Dominic Schaub: Comparative performance of quantile-based risk measures vs Value at Risk and Expected Shortfall, Master in Banking and Finance, Università di Zurigo, 2019

34. Nathalie Schenk: Stability properties of risk measures, Master in Mathematics, ETH Zurigo, 2013 (with W. Farkas)

35. Meichen Shen: Tail risk estimation: A comparative analysis across asset classes and geographical regions, Master in Banking and Finance, Università di Zurigo, 2022

36. Alkis Siochos: Conditional estimation of risk measures: A comparative analysis across asset classes, Master in Banking and Finance, Università di Zurigo, 2022

37. Ádám Szolt Várkonyi: The impact of solvency regulation on the investment behavior of financial institutions, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2021

38. Qingyang Xu: Estimation and backtesting of Loss Value at Risk, Master in Banking and Finance, Università di Zurigo, 2021

39. Yu Yansong: Risk measure estimation over long time horizons, Master in Banking and Finance, Università di Zurigo, 2021

40. Fang Zhang: Estimating and backtesting risk measures, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2019

41. Jiaxuan Zhao: Estimation of Value at Risk in conditional models, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2020

42. Jiani Zhou: Risk and return replication of trend following strategies, Master in Quantitative Finance, Università di Zurigo and ETH Zurigo, 2019 (with M. Wunsch)

Supervisione di studenti di bachelor

1. Jarno Hartog: Value-at-Risk and Tail Value-at-Risk: A comparison study, Semester Work, ETH Zurigo, 2012 (with W. Farkas)

2. Alberto Notaro: Computing Value at Risk on long time horizons: Is the square-root rule an appropriate method?, Bachelor in Banking and Finance, Università di Zurigo, 2021

3. Roman Poole: Catastrophe bonds: A comprehensive analysis, Bachelor in Banking and Finance, Università di Zurigo, 2020

4. Sara Svaluto-Ferro: Risk measures and capital requirements, Bachelor in Mathematics, ETH Zurigo, 2012 (with W. Farkas)

5. Alexandre Villard: A short note on indifference pricing, Semester Work, ETH Zurigo, 2013 (with W. Farkas)

6. Maurice Weber: VaR and AVaR based capital requirements with defaultable securities, Bachelor in Mathematics, ETH Zurigo, 2015 (with W. Farkas)

7. Patrick Zöchbauer: Analysis of convex risk measures on L^1, Bachelor in Mathematics, ETH Zurigo, 2014 (with W. Farkas)

Esperienza di referaggio

Mathematical Finance, Finance and Stochastics, Mathematics and Financial Economics, SIAM Journal on Financial Mathematics, Quantitative Finance, Insurance: Mathematics and Economics, Journal of Risk and Insurance, ASTIN Bulletin, European Journal of Actuarial Science, Management Science, Journal of Banking and Finance, Mathematics of Operations Research, Operations Research, Annals of Operations Research.

Dichiarazione

Il sottoscritto Cosimo-Andrea Munari conferma che tutto quanto dichiarato nel presente curriculum vitae corrisponde a verità e che le dichiarazioni rese nel curriculum sono rilasciate ai sensi degli articoli 46 e 47 del D.P.R. 445/2000.