

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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Matteo Dalla Riva **CURRICULUM VITAE**

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	DALLA RIVA
NOME	MATTEO
DATA DI NASCITA	28/04/1975

INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)

Data

24/07/2019

Luogo

Thiene (Vicenza)

Matteo Dalla Riva

Curriculum Vitae

July 22, 2019

Contents

1	General informations	2
2	Publications	3
2.1	Publications in International Peer-Reviewed Journals	3
2.2	Publications in Conference Proceedings and Book Chapters	5
2.3	PhD Dissertation	6
2.4	Scholarly Book	6
2.5	Books as editor	6
3	Scientific Presentations	6
3.1	Invited Oral Presentations	6
3.2	Communications at International Conferences	8
4	Funded Proposals	10
5	Continuing Education	10
5.1	Postdoctoral positions and research fellowships	10
5.2	Additional Qualifications	11
6	Service activities	11
6.1	Organizer responsibilities	11
6.2	Scholarly journals reviewer	12
6.3	Editor responsibilities	12
7	Scientific Visits	12
8	Teaching	13
8.1	Courses Taught	13
8.2	Supervision of students	14
8.3	Some extracts from the most recent course evaluation reports	15

1 General informations

- **Name:** Matteo Dalla Riva
- **Birth Date:** April 28, 1975
- **Degrees Earned:**
 - **March 13, 2008:** PhD in Mathematics at the Doctoral School in Mathematical Sciences, University of Padova, Italy.
 - **September 29, 2004:** Master’s degree (with honors) in Mathematics, University of Padova, Italy.
- **Area of Specialization:** Applied Analysis, Partial Differential Equations, Boundary Integral Equations, Singular Perturbation Problems, Non Linear Problems.
- **Professional Experience:**
 - From August 15, 2019, I will be an associate professor at the Department of Mathematics, College of Engineering and Natural Sciences, of the University of Tulsa, USA.
 - From August 15, 2015, I am an assistant professor at the Department of Mathematics, College of Engineering and Natural Sciences, of the University of Tulsa, USA.
 - From June 1, 2011 until August 14, 2015, I have been a member of the research center in mathematics and applications “Centro de Investigação e Desenvolvimento em Matemática e Aplicações” (CIDMA), Department of Mathematics, University of Aveiro, Portugal.
 - From March 1, 2010 until May 31, 2011, I was a member of the research center in mathematics “Centro de Matemática da Universidade do Porto” (CMUP), Department of Mathematics, University of Porto, Portugal.
 - From February 1, 2008 until January 31, 2010, I was a research fellow (“Assegnista di Ricerca”) in the Department of Pure and Applied Mathematics, University of Padova, Italy.
- **Professional Memberships:** life member of the International Society for Analysis, its Applications and Computation (ISAAC)
- **Honors and Awards:** Special Mention for Young Scientists awarded by the International Society for Analysis, its Applications and Computation (ISAAC) at the conference in Macao, China, 2015.
- **Habilitation:** Italian National Scientific Habilitation “abilitazione scientifica nazionale” (ASN), art. 16 L. 240/2010, Settore Concorsuale: 01/A3, Fascia: 2. Title obtained in August 2017 and valid through August 2023.

2 Publications

- **Papers published:** 39
- **In international journals:** 28 (2010-2018)
- **In conference proceedings:** 10 (2009-2018)
- **PhD Dissertation:** 1 (2008)

Some of the journals where I have published: Journal de Mathématiques Pures et Appliquées, Journal of Differential Equations, SIAM Journal of Mathematical Analysis, SIAM Journal of Applied Mathematics, Communications in Partial Differential Equations, Integral Equations and Operator Theory, Journal of Mathematical Analysis and Applications, Mathematical Methods in the Applied Sciences, Integral Transforms and Special Functions, Complex Variables and Elliptic Equations, and so on.

Papers with co-authors: 31

Co-authors: Paolo Musolino, Massimo Lanza de Cristoforis, Olga Bernardi, Virginie Bonnaillie-Noël, Martin Costabel, Marc Dambrine, Monique Dauge, Wei-Xiong Mai, Gennady Mishuris, João Morais, Luigi Provenzano, Roman Pukhtaievych, Tao Qian, Saburo Saitoh, Sin-Ei Takahasi, Semyon Yakubovich, Mo Yan.

Single-Author Papers: 7.

Citation: 310 (Google Scholar).

H-index: 11 (Google Scholar).

2.1 Publications in International Peer-Reviewed Journals

- [1] M. Dalla Riva, P. Musolino, and R. Pukhtaievych: Series expansion for the effective conductivity of a periodic dilute composite with thermal resistance at the two-phase interface, *Asymptot. Anal.* 111 (2019) 217–250.
- [2] V. Bonnaillie-Noël, M. Dalla Riva, M. Dambrine, and P. Musolino: A Dirichlet problem for the laplace operator in a domain with a small hole close to the boundary. *J. Math. Pures Appl.* 116 (2018) 211–267.
- [3] M. Dalla Riva and L. Provenzano: On vibrating thin membranes with mass concentrated near the boundary: an asymptotic analysis. *SIAM J. Math. Anal.* 50.3 (2018): 2928–2967.
- [4] M. Dalla Riva and P. Musolino: Moderately close Neumann inclusions for the Poisson equation. *Math. Methods Appl. Sci.*, 41 (2018): 986–993.
- [5] M. Costabel, M. Dauge, M. Dalla Riva, and P. Musolino: Converging Expansions for Lipschitz Self-Similar Perforations of a Plane Sector. *Integral Equations and Operator Theory* 88.3 (2017): 401–449.
- [6] M. Dalla Riva and P. Musolino: The Dirichlet problem in a planar domain with two moderately close holes. *Journal of Differential Equations* 263.5 (2017): 2567–2605.
- [7] O. Bernardi and M. Dalla Riva: Analytic dependence on parameters for Evans’ approximated Weak KAM solutions. *Discrete and Continuous Dynamical Systems* 37.9 (2017): 4625–4636.

- [8] M. Dalla Riva and P. Musolino: A mixed problem for the Laplace operator in a domain with moderately close holes. *Communications in Partial Differential Equations* 41.5 (2016): 812–837.
- [9] M. Dalla Riva, S. Takahasi: Extensions of the inversion map to the absorbing elements of a semigroup. *Nihonkai Math. J.* 26 (2015), no. 2, 127–134.
- [10] M. Dalla Riva, P. Musolino, and S. Rogosin: Series expansions for the solution of the Dirichlet problem in a planar domain with a small hole, *Asymptot. Anal.*, 92 (2015), 339–361.
- [11] M. Dalla Riva and G. Mishuris: Existence results for a nonlinear transmission problem, *J. Math. Anal. Appl.*, 430 (2015), 718–741.
- [12] M. Dalla Riva, M. Lanza de Cristoforis, and P. Musolino: Analytic dependence of volume potentials corresponding to a parametric family of fundamental solutions, *Integral Equations Operator Theory*, 82 (2015), 371–393.
- [13] M. Dalla Riva and P. Musolino: Real analytic families of harmonic functions in a planar domain with a small hole, *J. Math. Anal. Appl.*, 422 (2015), 37–55.
- [14] M. Dalla Riva and P. Musolino: Harmonic functions in a domain with a small hole. A functional analytic approach, *Electron. J. Differential Equations*, (2014), 1–14.
- [15] M. Dalla Riva and P. Musolino: A singularly perturbed nonlinear traction problem in a periodically perforated domain. A functional analytic approach. *Math. Methods Appl. Sci.*, 37 (2014), 106–122.
- [16] M. Dalla Riva, W. Mai, T. Qian, M. Yan, and S. Saitoh: A matrix inequality for the inversions of the restrictions of a positive definite Hermitian matrix. *Advances in Linear Algebra & Matrix Theory (ALAMT)*, (2013), 55–58.
- [17] M. Dalla Riva: A family of fundamental solutions of elliptic partial differential operators with real constant coefficients. *Integral Equations Operator Theory*, 76 (2013), 1–23.
- [18] M. Dalla Riva, J. Morais, and P. Musolino: A family of fundamental solutions of elliptic partial differential operators with quaternion constant coefficients. *Math. Methods Appl. Sci.*, 36 (2013), 1569–1582.
- [19] M. Dalla Riva and P. Musolino: A singularly perturbed non-ideal transmission problem and application to the effective conductivity of a periodic composite. *SIAM J. Appl. Math.*, 73 (2013), 24–46.
- [20] M. Dalla Riva: Stokes flow in a singularly perturbed exterior domain. *Complex Variables Elliptic Equations*, 58 (2013), 231–257.
- [21] M. Dalla Riva and P. Musolino: Real analytic families of harmonic functions in a domain with a small hole. *J. Differential Equations*, 252 (2012), 6337–6355.
- [22] M. Dalla Riva: Energy integral of the Stokes flow in a singularly perturbed exterior domain. *Opuscula Math.*, 32 (2012), 647–659.
- [23] M. Dalla Riva and S. Yakubovich: On a Riemann–Liouville fractional analog of the Laplace operator with positive energy integral. *Integral Transforms Special Functions*, 23 (2012), 277–295.
- [24] M. Dalla Riva and M. Lanza de Cristoforis: Weakly singular and microscopically hypersingular load perturbation for a nonlinear traction boundary value problem. A functional analytic approach. *Complex Anal. Operator Theory*, 5 (2011), 811–833.

- [25] M. Dalla Riva and M. Lanza de Cristoforis: Hypersingularly perturbed loads for a nonlinear traction boundary value problem. A functional analytic approach. *Eurasian Math. J.*, 1 (2010), 31–58.
- [26] M. Dalla Riva and M. Lanza de Cristoforis: A perturbation result for the layer potentials of general second-order elliptic operators with constant coefficients. *J. Appl. Functional Anal.*, 5 (2010), 10–30.
- [27] M. Dalla Riva and M. Lanza de Cristoforis: Microscopically weakly singularly perturbed loads for a nonlinear traction boundary value problem. A functional analytic approach. *Complex Variables Elliptic Equations*, 55 (2010), 771–794.
- [28] M. Dalla Riva and M. Lanza de Cristoforis: A singularly perturbed nonlinear traction boundary value problem for linearized elastostatics. A functional analytic approach. *Analysis (Munich)*, 30 (2010), 67–92.

2.2 Publications in Conference Proceedings and Book Chapters

- [29] M. Dalla Riva and P. Musolino: Harmonic functions in a domain with a small hole. A functional analytic approach. In *Integral Methods in Science and Engineering: Theoretical and Computational Advances, Proceedings of the 13th International Conference on Integral Methods in Science and Engineering, IMSE 2014, Karlsruhe, Germany 21-25 July 2014*, Springer, Basel, pp 143-153.
- [30] M. Dalla Riva, M. Lanza de Cristoforis, and P. Musolino: A local uniqueness result for a quasi-linear heat transmission problem in a periodic two-phase dilute composite, in *Operator Theory: Advances and Applications*, Birkhäuser Verlag, Basel, vol 258. Birkhuser, 2017.
- [31] M. Dalla Riva and P. Musolino: Energy integral of a nonlinear traction problem in a singularly perturbed periodically perforated domain. In T.Aliyev, A.Golberg, and S.V.Rogosin, editors, *Complex Analysis and Potential Theory with applications, Proceedings of the 9th ISAAC Congress, Krakow, Poland 5-9 August, 2013*, pp. 41–52, Cambridge Scientific Publishers, Cottenham, UK, 2014.
- [32] M. Dalla Riva and P. Musolino: Energy integral of the solution of a non-ideal transmission problem in a singularly perturbed periodic domain. In T.Aliyev, A.Golberg, and S.V.Rogosin, editors, *Complex Analysis and Potential Theory with applications, Proceedings of the 9th ISAAC Congress, Krakow, Poland 5-9 August, 2013*, pp. 31–40, Cambridge Scientific Publishers, Cottenham, UK, 2014.
- [33] M. Dalla Riva, M. Lanza de Cristoforis, and P. Musolino: On a singularly perturbed periodic nonlinear Robin problem. *Analytical Methods of Analysis and Differential Equations: AMADE-2012*, Cambridge Scientific Publishers, Cottenham, UK, 2014, pp. 73–92.
- [34] M. Dalla Riva, J. Morais, and P. Musolino: A family of fundamental solutions for elliptic quaternion coefficient differential operators and application to perturbation results for single layer potentials. *Ninth International Conference on Mathematical Problems in Engineering, Aerospace and Sciences: ICNPAA 2012, Vienna, Austria, July 10–14, 2012*, AIP Conference Proceedings vol. 1493, S. Sivasundaram (Ed.), American Institute of Physics, Melville, NY, 2012, pp. 269–273.
- [35] M. Dalla Riva and P. Musolino: Effective conductivity of a singularly perturbed periodic two-phase composite with imperfect thermal contact at the two-phase interface. *Ninth International Conference on Mathematical Problems in Engineering, Aerospace and Sciences: ICNPAA 2012*,

Vienna, Austria, July 10–14, 2012, AIP Conference Proceedings vol. 1493, S. Sivasundaram (Ed.), American Institute of Physics, Melville, NY, 2012, pp. 264–268.

- [36] M. Dalla Riva and M. Lanza de Cristoforis: Singularly perturbed loads for a nonlinear traction boundary value problem on a singularly perturbed domain. *Progress in Analysis and Its Applications, Proceedings of the 7th International ISAAC Congress, Imperial College London, July 13–18, 2009*, M. Ruzhansky and J. Wirth (Eds.), World Scientific Publishers, Hackensack, NJ, 2010, pp. 31–38.
- [37] M. Dalla Riva: Microscopic behavior of the Stokes flow in a singularly perturbed exterior domain. *Progress in Analysis and Its Applications, Proceedings of the 7th International ISAAC Congress, Imperial College London, July 13–18, 2009*, M. Ruzhansky and J. Wirth (Eds.), World Scientific Publishers, Hackensack, NJ, 2010, pp. 23–30.
- [38] M. Dalla Riva: The layer potential of some partial differential operators: real analytic dependence upon perturbations. *Further Progress in Analysis, Proceedings of the 6th International ISAAC Congress, Ankara, Turkey, August 13–18, 2007*, World Scientific, Singapore, 2009, pp. 208–217.

2.3 PhD Dissertation

- [39] M. Dalla Riva: *Potential theoretic methods for the analysis of singularly perturbed problems in linearized elasticity*, University of Padova. Supervisor: M. Lanza de Cristoforis, 2008.

2.4 Scholarly Book

- [40] M. Dalla Riva, M. Lanza de Cristoforis, and P. Musolino: A Functional Analytic Approach to singularly perturbed elliptic boundary value problems, in preparation

A book contract has been signed in October 2015 with Springer.

2.5 Books as editor

- [41] C. Constanda, M. Dalla Riva, P.D. Lamberti, P. Musolino P. (eds) *Integral Methods in Science and Engineering: Volume 1, Theoretical Techniques*. Birkhäuser, 2017
- [42] C. Constanda, M. Dalla Riva, P.D. Lamberti, P. Musolino P. (eds) *Integral Methods in Science and Engineering: Volume 2, Practical Applications*. Birkhäuser, 2017

3 Scientific Presentations

3.1 Invited Oral Presentations

Total = 16: 5 in Portugal, 3 in France, 2 in Italy, 2 in Brazil, 2 in USA, 1 in Belarus, 1 in Germany.

- October 2017: “Tech Food Friday” organized by the MAA students of The University of Tulsa. Title: “Small holes, why and how.”
- June 2017: “Workshop ARAMIS” at the University of Pau, France. Title: “A functional analytic approach to problems in domains with small holes.”
- August 2015: “Integral Methods in Science and Engineering (IMSE-2015)”, The University of Tulsa, Tulsa, Oklahoma. Title: “A Nonlinear Transmission Problem: Existence, Uniqueness, and Regularity of Solutions.”

- June 2017: “Workshop ARAMIS” at the University of Pau, France. Title: “A functional analytic approach to problems in domains with small holes.”
- August 2015: “Integral Methods in Science and Engineering (IMSE-2015)”, The University of Tulsa, Tulsa, Oklahoma. Title: “A Nonlinear Transmission Problem: Existence, Uniqueness, and Regularity of Solutions.”
- August 2015: “Integral Methods in Science and Engineering (IMSE-2015)”, The University of Tulsa, Tulsa, Oklahoma. Title: “A Nonlinear Transmission Problem: Existence, Uniqueness, and Regularity of Solutions.”
- September 2014: “Journées ARAMIS - project ANR ‘Analysis of Robust Methods in numerical Simulation in mechanics’ ”, Technical University of Compiègne, France. Title: “Boundary value problems for the Laplace operator in a planar domain with small close holes.”
- August 2014: Institute of Mathematical Sciences and Computation (ICMC), University of São Paulo, São Carlos, Brazil. Title: “Some elliptic problems in domains with small holes.”
- August 2014: Workshop on Shape and Topology Optimization with PDE Constraints, Laboratório Nacional de Computação Científica (LNCC), Petropolis, Brazil. Title: “Nonlinear boundary problems in singularly perturbed domains. A functional analytic approach.”
- July 2014: Statistics and Mathematical Sciences Workshop, University of Beira Interior, Covilhã, Portugal. Title: “An existence result for a nonlinear transmission problem.”
- November 2012: Seminar of Analysis, Centre for Mathematics of the University of Coimbra (CMUC), Portugal. Title: “Dirichlet problem in a domain with a small hole.”
- May 2012: Department of Mathematics of the Technical University Bergakademie of Freiberg, Germany. Title: “A family of fundamental solutions for elliptic partial differential operators with constant coefficients.”
- March 2012: Seminar of Functional Analysis and Applications, Centro de Investigação e Desenvolvimento em Matemática e Aplicações (CIDMA), University of Aveiro, Portugal. Title: “On the layer potentials of elliptic partial differential operators with constant coefficients.”
- January 2012: Department of Mathematics of the University of Padova, Italy. Title: “A parametric family of fundamental solutions.”
- February 2011: Seminar of Functional Analysis and Applications, Centro de Investigação e Desenvolvimento em Matemática e Aplicações (CIDMA), University of Aveiro, Portugal. Title: “Boundary value problems for linearized elasticity in singularly perturbed domains. A functional analytic approach.”
- January 2011: Symposium on Special Functions, Transform and Operator Theory, and Related Topics, Centro de Matemática da Universidade do Porto (CMUP), Portugal. Title: “Basic boundary value problems for a Riemann–Liouville fractional analog of the Laplace operator.”
- June 2011: Department of Mathematics of the University of Padova, Italy. Title: “Some fractional analogs of the Laplace operator.”
- September 2010: Department of Physics of the University Pierre et Marie Curie, Paris 6, France. Title: “On a Riemann–Liouville fractional analog of the Laplace operator with a positive energy integral.”

- February 2009: Department of Function Theory of the Belorussian State University of Minsk, Belarus. Title: “A singularly perturbed nonlinear traction problem.”

3.2 Communications at International Conferences

Total = 26: 6 in Portugal, 5 in Italy, 3 in Poland, 3 in the UK, 2 in Belarus, 1 in Austria, 1 in Israel, 1 in Romania, 1 in Russia, 1 in Turkey, 1 in Ukraine, 1 in USA.

- July 2018: 15th International Conference on Integral Methods in Science and Engineering, University of Brighton, Brighton, UK. Title: “A hole close to the boundary.”
- March 2016: 32nd Southeastern Analysis Meeting, University of South Florida, Tampa, FL. Title: “A mixed problem in a domain with moderately close holes.”
- November 2014: Perturbation, Elliptic, and Parabolic workshop, CIDMA, University of Aveiro, Portugal. Title: “Existence results for a nonlinear transmission problem.”
- October 2014: 5th Iberian Mathematical Meeting, CIDMA, University of Aveiro, Portugal. Title: “Nonlinear transmission problems in singularly perturbed domains.”
- April 2014: British Applied Mathematics Colloquium, Cardiff University, UK. Title: “Singularly perturbed nonlinear traction problems in elastostatics.”
- August 2013: Ninth International ISAAC Congress, at the Pedagogical University of Krakow, Poland. Title: “Dirichlet boundary value problem in a plane domain with a small hole.”
- July 2012: Sixth Workshop on Statistics, Mathematics and Computation and Third Portuguese–Polish Workshop on Biometry, University of Covilhã, Portugal. Title: “Effective conductivity of a singularly perturbed periodic two-phase composite with imperfect thermal contact at the two-phase interface.”
- July 2012: Ninth International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2012), Vienna, Austria. Title: “A family of fundamental solutions for elliptic quaternion coefficient differential operators.”
- July 2012: Ninth International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2012), Vienna, Austria. Title: “Effective conductivity of a singularly perturbed periodic two-phase composite with imperfect thermal contact at the two-phase interface.”
- June 2012: Research Day at the University of Aveiro, Portugal. Poster communication titled “Singular domain perturbation problems. Remarks on a basic example.”
- August 2011: Eighth International ISAAC Congress, People Friendship University of Moscow, Russia. Title: “Stokes flow in a singularly perturbed domain.”
- June–July 2011: Integral and Differential Operators and Their Applications (IDOTA), University of Aveiro, Portugal. Title: “Real analytic families of harmonic functions in a domain with a small hole.”
- June 2011: Selected Topics in Operator Theory, Technical University of Lisbon, Portugal. Title: “A functional analytic approach for a singularly perturbed nonlinear traction problem in linearized elastostatics.”

- June 2011: Minicorsi di Analisi Matematica, Department of Methods DMMMSA and Department of Mathematics, University of Padova, Italy. Title: “Real analytic families of harmonic function in a domain with a small hole.”
- June 2010: Minicorsi di Analisi Matematica, Department of Methods DMMMSA and Department of Mathematics, University of Padova, Italy. Title: “Stokes flow in a singularly perturbed exterior domain.”
- April 2010: Boundary Value Problems and Functional Equations and Applications, Department of Mathematics, Pedagogical University of Krakow, Poland. Title: “Singular perturbed Stokes flow past a small impurity.”
- September 2009: AMADE-09, Belorussian State University of Minsk, Belarus. Title: “A singularly perturbed nonlinear traction problem in linearized elastostatics.”
- July 2009: Seventh International ISAAC Congress, Imperial College, London, UK. Title: “A functional analytic approach for a singularly perturbed nonlinear traction problem in linearized elastostatics.”
- June 2009: Minicorsi di Analisi Matematica, Department of Methods DMMMSA and Department of Mathematics, University of Padova, Italy. Title: “A singularly perturbed nonlinear traction problem in linearized elastostatics.”
- May 2009: Complex Analysis and Dynamical Systems IV, ORT Braude College, Karmiel, Israel. Title: “A singularly perturbed nonlinear traction problem in linearized elastostatics.”
- August 2008: International Conference on Complex Analysis and Related Topics. Eleventh Romanian–Finnish Seminar, Institute of Mathematics “Simion Stoilow” of the Romanian Academy “1 Decembrie 1918”, University of Alba Iulia, Romania. Title: “A functional analytic approach for a singularly perturbed nonlinear traction problem in linearized elastostatics.”
- June 2008: Analysis, PDEs and Applications, on the Occasion of the 70th Birthday of Vladimir Maz’ya, National Institute of Mathematics “Francesco Severi”, Rome, Italy. Title: “A functional analytic approach for a singularly perturbed nonlinear traction problem in linearized elastostatics.”
- April 2008: Boundary Value Problems and Functional Equations and Applications, Department of Mathematics, Pedagogical University of Krakow, Poland. Title: “The layer potentials: dependence on perturbation.”
- August 2007: Complex Analysis and Wave Processes in Mechanics, National University “Ivan Franko”, Zhitomir, Ukraine. Title: “The layer potentials of some constant coefficient operators: real analytic dependence on perturbation of the density, domain, and coefficients.”
- August 2007: Sixth International ISAAC Congress, Middle East Technical University (METU), Ankara, Turkey. Title: “Real analytic dependence of the single-layer and double-layer potentials of some constant coefficient elliptic partial differential operators on perturbation of the density, support, and coefficients of the operator.”
- September 2006: Analytical Methods in Analysis and Differential Equations (AMADE-2006), Belorussian State University, Minsk, Belarus. Title: “Asymptotic behavior of the solutions of the Dirichlet problem for the elastostatic operator in a domain with a small hole.”

4 Funded Proposals

- 2018** – “Interaction of Two Different Approaches for the Analysis of Singularly Perturbed Problems” (grant *Faculty Development Summer Fellowship Program* funded by the University of Tulsa; principal investigator: M. Dalla Riva)
- 2017** – “Nonlinear and nonideal contact problems in perturbed domains” (grant *Faculty Development Summer Fellowship Program* funded by the University of Tulsa; principal investigator: M. Dalla Riva)
- 2016** – “Boundary and Corner Perturbations: A Functional Analytic Approach” (grant *Faculty Development Summer Fellowship Program* funded by the University of Tulsa; principal investigator: M. Dalla Riva)
- 2015** – “A Functional Analytical Approach for the analysis of singularly perturbed Nonlinear transmission problems” (grant *Marie Skłodowska-Curie Actions* for the development of a research project at the Department of Mathematics of the University of Aberystwyth, UK, funded by the European Commission Horizon 2020 Program; principal investigator: M. Dalla Riva)
- 2012** – “Boundary value problems in singularly perturbed domains. A functional analytic approach” (grant from the Portuguese Foundation for Science and Technology (FCT); principal investigator: M. Dalla Riva).
 - “Boundary value problems in singularly perturbed domains. A functional analytic approach” (grant *Assegno di Ricerca Senior* from the University of Padova, Italy; principal investigator: M. Dalla Riva).
 - “Singular perturbation problems for differential operators” (*Progetto di Ateneo*, funded by the University of Padova, Italy; principal investigator: P. Lamberti).
- 2009** – “Singular perturbation problems for equations and systems of differential equations” (grant from the Portuguese Foundation for Science and Technology (FCT); principal investigator: M. Dalla Riva).
- 2008** – “Stability problems for differential operators” (*Progetto di Ateneo*, funded by the University of Padova, Italy; principal investigator: P. Lamberti).

5 Continuing Education

5.1 Postdoctoral positions and research fellowships

- **2013–2015:** from March 1, 2013, until August 14, 2015, I have held a three-year postdoctoral grant for research on a project titled “Boundary value problems in singularly perturbed domains. A functional analytic approach”, awarded by the Portuguese Foundation for Science and Technology (FCT) (reference code SFRH/BPD/64437/2009), and hosted by the Centro de Investigação e Desenvolvimento em Matemática e Aplicações (CIDMA), University of Aveiro, Portugal.
- **2010–2013:** I had a three-year postdoctoral grant for a research project titled “Singular perturbation problems for equations and systems of differential equations”, provided by the Portuguese Foundation for Science and Technology (FCT) (reference code SFRH/BPD/64437/2009) and hosted, from March 1, 2010 until May 31, 2011, by the Centro de Matemática da Universidade do Porto (CMUP), Portugal, and then, from June 1, 2011 until February 28, 2013, by the Centro de Investigação e Desenvolvimento em Matemática e Aplicações (CIDMA), University of Aveiro, Portugal.

- **2008–2010:** From the February 1, 2008 until the January 31, 2010, I had a research fellowship (*Assegno di Ricerca*) in the Department of Pure and Applied Mathematics of the University of Padova, Italy, to complete a research project titled “Alcune applicazioni della teoria degli spazi funzionali a problemi di perturbazione spettrale” (Some applications of function space theory to spectral perturbation problems).

5.2 Additional Qualifications

- Qualifications from the *Ministère de l'Enseignement Supérieur et de la Recherche Scientifique* (French ministry of higher education and scientific research):
 - February 2013: qualification aux fonctions de maître de conférences - Section 25 - Mathématiques.
 - February 2013: qualification aux fonctions de maître de conférences - Section 26 - Mathématiques appliquées et applications des mathématiques.
- August 2017: Italian National Scientific Habilitation: abilitazione scientifica nazionale (ASN), art. 16 L. 240/2010, Settore Concorsuale: 01/A3, Fascia: 2.

6 Service activities

6.1 Organizer responsibilities

- Collaborator of the organizing committee of the meeting “**Mini-courses in Mathematical Analysis 2019**” at the Department of Mathematics of the **University of Padova**, Italy.
- Collaborator of the organizing committee of the meeting “**Mini-courses in Mathematical Analysis 2018**” at the Department of Mathematics of the **University of Padova**, Italy.
- Responsible for the proposal and the implementation of a new course in **Boundary Integral Methods** at the **University of Tulsa** which will be given in the Fall Term of 2018.
- Responsible for the proposal and the implementation of a new course in **Linear Functional Analysis** at the **University of Tulsa** from the Fall Term of 2016.
- Member of the organizing committee of the **14th International Conference on Integral Methods in Science and Engineering (IMSE 2016)** held at the Department of Mathematics of the **University of Padova** on July 25–29, 2016, and organized together with the University of Tulsa, the International Union of Pure and Applied Physics (IUPAP), the Italian National Institute for High Mathematics (INDAM), and the International Society for Analysis, its Applications and Computation (ISAAC).
- Organizer of the **Seminar of the Group on Functional Analysis and Application (GAFA)** at the Center for R&D in Mathematics and Applications of the **University of Aveiro**, Portugal, during the academic years 2014–2015.
- Organizer of the **visit and seminar of Marc Dambrine** (University of Pau and Pays de l’Adour, France) at the Center for R&D in Mathematics and Applications of the **University of Aveiro**, Portugal, 2014.
- Chairman of the organizing committee of the meeting “**Perturbation, Elliptic, and Parabolic workshop 2014–PEPw14**” at the Center for R&D in Mathematics and Applications (CIDMA), **University of Aveiro**, Portugal.

- Organizer of the meeting “**Mini-courses in Mathematical Analysis 2014**” at the Department of Mathematics of the **University of Padova**, Italy.
- Organizer of the **visit and seminars of Luigi Provenzano** (at the time PhD student at the University of Padova) at the Center for R&D in Mathematics and Applications of the **University of Aveiro**, Portugal, 2014–2015.
- Organizer of the **visit and seminars of Paolo Musolino** (University of Padova) at the Center of Mathematics of the **University of Porto**, Portugal, 2011.
- Organizer of the **Seminar of the PhD School of Mathematics** of the **University of Padova**, Italy, during the academic years 2008–2009 and 2009–2010.

6.2 Scholarly journals reviewer

- Since 2018, reviewer for Journal de Mathématiques Pures et Appliquées
- Since 2018, reviewer for Journal of Mathematical Analysis
- Since 2016, reviewer for Mathematische Nachrichten
- Since 2015, reviewer for Manuscripta Mathematica
- Since 2014, reviewer for Mathematical Reviews (mathscinet)
- Since 2014, reviewer for the Proceedings of the ISAAC Congress
- Since 2014, reviewer for Complex Variables and Elliptic Equations
- Since 2014, reviewer for Communications on Pure and Applied Analysis
- Since 2013, reviewer for Advances in Harmonic Analysis and Operator Theory
- Since 2013, reviewer for Analysis (Munich)
- Since 2013, reviewer for Complex Variables and Elliptic Equations

6.3 Editor responsibilities

- Since 2017, member of the editorial board of ANALYSIS International mathematical journal of analysis and its applications (Berlin, formerly Munich).
- 2016-2017, member of the editorial committee of the proceedings’ book Integral Methods in Science and Engineering, Springer.

7 Scientific Visits

- June-July 2019: University of Padova, Italy (for a collaboration with M. Lanza de Cristoforis and P. Musolino).
- June-July 2018: University of Padova, Italy (for a collaboration with M. Dauge, M. Costabel, M. Lanza de Cristoforis, P. Musolino).
- May-July 2017: University of Padova, Italy (for a collaboration with V. Bonnaillie-Noël, M. Dambrine, M. Lanza de Cristoforis, P. Musolino).

- November 2014: Two days at the École normale supérieure, Paris, France (for a collaboration with V. Bonnaillie-Noël, M. Dambrine, and C. Lacave).
- August 2014: One week at the Institute of Mathematical Science and Computation, University of São Paulo, São Carlos, Brasil (for a collaboration with A. Carvalho).
- July 2014: One week in the Department of Mathematics and Physics (IMPACS), Aberystwyth University, UK (for a collaboration with G. Mishuris).
- May 2014: One week in the Department of Mathematics and Physics (IMPACS), Aberystwyth University, UK (for a collaboration with G. Mishuris).
- May 2012: One week in Erfurt and at the Technical University Bergakademie of Freiberg, Germany (for a collaboration with J. Morais).
- September 2010: One week at the University “Pierre et Marie Curie”, Paris 6 (for a collaboration with S. Yakubovich (Porto), V. Mityushev (Krakow), and P. Adler (Paris)).
- February 2009: Two weeks at the Belorussian State University, Minsk, Belarus (for a collaboration with S. Rogosin).

8 Teaching

8.1 Courses Taught

At the **University of Tulsa**:

- Spring 2019: **Differential equations** (2 sessions)
- Fall 2018: **Boundary Integral Methods**
- Fall 2018: **Differential Equations**
- Spring 2018: **Linear Functional Analysis**
- Spring 2018: **Differential Equations**
- Fall 2017: **Differential Equations** (2 sessions)
- Spring 2017: **Differential Equations** (2 sessions)
- Fall 2016: **Linear Functional Analysis**
- Fall 2016: **Differential Equations**
- Spring 2016: **Differential Equations** (2 sessions)
- Fall 2015: **Differential Equations**

At the **University of Aveiro**, Portugal, for the Bachelor degree in Biochemistry and Biotechnology:

- 2013: **Calculus 1** (functions of one real variable, in Portuguese).

At the University of Aveiro, Portugal, for the Master’s degree in Mathematics:

- 2012: **Functional Analysis** (PDEs and boundary value problems); principal lecturer: L. Castro (in English).

At the **University of Padova**, Italy, for the Bachelor degree in Mathematics:

- 2009/10: **Calculus 1** (functions of one real variable); principal lecturer: V. Burenkov (in Italian; classes larger than 170 students).
- 2008/09: **Calculus 1** (functions of one real variable); principal lecturer: P. Lamberti (in Italian; classes larger than 170 students).
- 2005/06: **Mathematical Analysis** (ODEs and measure theory); principal lecturer: G. Bratti (in Italian).

8.2 Supervision of students

- Supervisor of the graduate student **Brian Luczak** at the **University of Tulsa** for the preparation of his Master's Degree thesis. Brian has defended his thesis on March 26, 2019. He has been admitted in several PhD schools in the USA.
- Main scientific advisor and co-supervisor together with P. Musolino for the Master's Degree thesis of **Riccardo Molinarolo** at the **University of Padova**, Italy. The student has defended the Master degree thesis in the Fall semester of 2016. The official supervisor has been M. Lanza de Cristoforis.
- Co-supervisor together with G. Mishuris and P. Musolino of the PhD studies of **Riccardo Molinarolo** at the **University of Aberystwyth**, UK, and main advisor for his research activity and the writing of his PhD thesis. Riccardo visited the University of Tulsa from March 21, 2017 until March 20, 2018.
- Co-advisor, together with P. Musolino, for the research activity of **Roman Pukhtaievych** for the writing of his PhD thesis at the **University of Padova**, Italy. R. Pukhtaievych has been a PhD student of the University of Padova since October 2015 and he is officially supervised by M. Lanza de Cristoforis. He has discussed the thesis on January 18, 2019. He is expected to defend his thesis in 2019.
- Co-supervisor, together with P. Lamberti of the research activity of **Luigi Provenzano** for the writing of his PhD thesis at the **University of Padova**, Italy (see also Math Genealogy Project, [link](#)). L. Provenzano defended his thesis in March 2016 and he has now a senior research grant at the University of Padova, Italy (he previously held a senior research position at the École Polytechnique Fédérale de Lausanne (EPFL), Switzerland).
- Collaboration with the PhD student **Paolo Musolino** during the preparation of his PhD thesis under the supervision of M. Lanza de Cristoforis. Musolino visited the University of Aveiro before his defense, from February 11, 2012 to March 26, 2012. He defended his thesis in April 2012 at the **University of Padova**, Italy, and he is now a Type A researcher at the University of Padova, Italy.

8.3 Some extracts from the most recent course evaluation reports

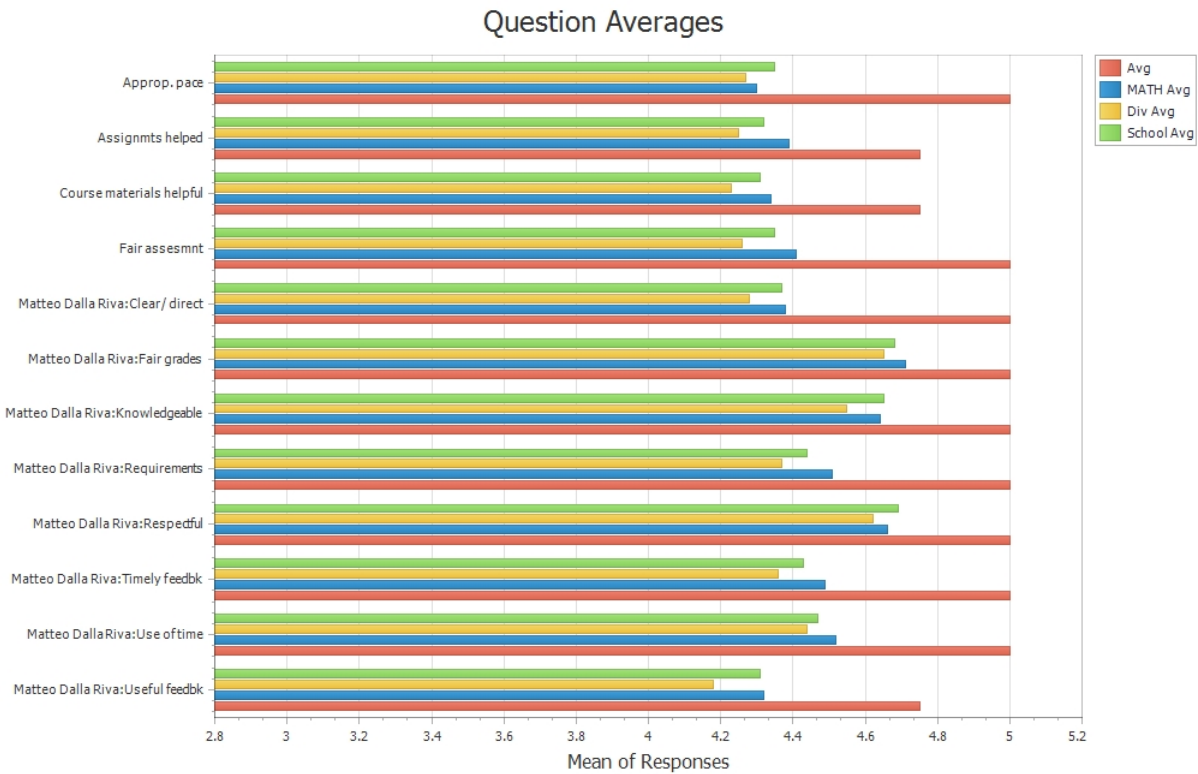
The following histograms compare the responses average obtained by M. Dalla Riva with those of the Department of Mathematics, of the College of Engineering and Natural Sciences, and of the University of Tulsa, USA:

- The **red** bar is the responses average of M. Dalla Riva for the specific course;
- The **blue** bar is the responses average of the Department of Mathematics of the University of Tulsa for all courses;
- The **yellow** (yellow) bar is the responses average of the College of Engineering and Natural Sciences of the University of Tulsa for all courses;
- The **green** bar is the responses average of whole University of Tulsa for all courses.

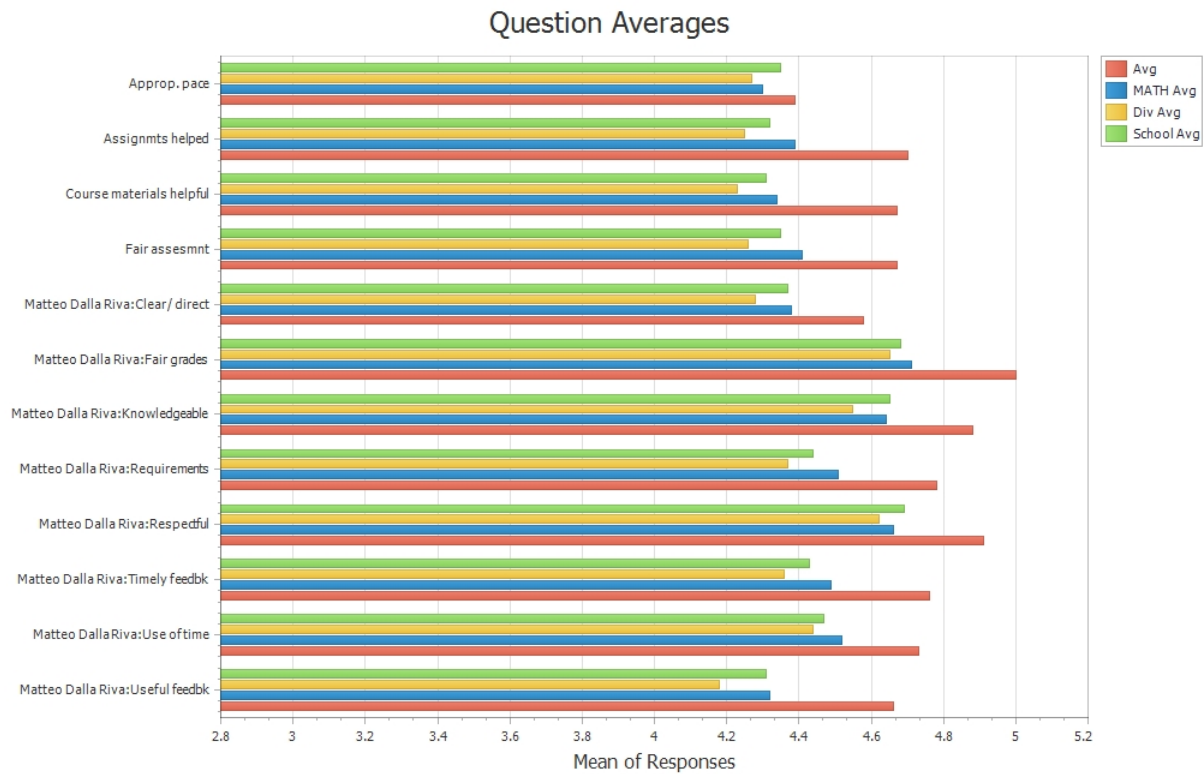
The students gave points from 0 to 5 and the questions posed concern:

- Whether or not the pace of the lectures has been appropriate [0=not appropriate, 5=very appropriate];
- If the assignments have been helpful to learn the lecture subject matter [0=not at all, 5=very helpful];
- If the course materials (textbook, handouts, etc.) were helpful in learning the subject matter [0=not at all, 5=very helpful];
- If the examinations, quizzes and assignments provided a fair assessment of what was covered in the course, or lectures [0=not at all, 5=very fair];
- If the instructor lectured in a clear, direct and logical manner [0=not at all, 5=very clear];
- If the instructor's grades were impartial and without favoritism [0=not at all, 5=very impartial].
- If the instructor was knowledgeable and committed to teaching the course content [0=not at all, 5=very knowledgeable];
- If the instructor communicated course requirements clearly [0=not at all, 5=very clearly];
- If the instructor treated students with respect [0=not at all, 5=very respectful];
- If the instructor provided feedback or grades in a timely manner [0=not at all, 5=very timely];
- If the instructor made effective use of class time [0=not at all, 5=very effective];
- If the instructor provided useful feedback on examinations, quizzes or other assignments [0=not at all, 5=very useful].

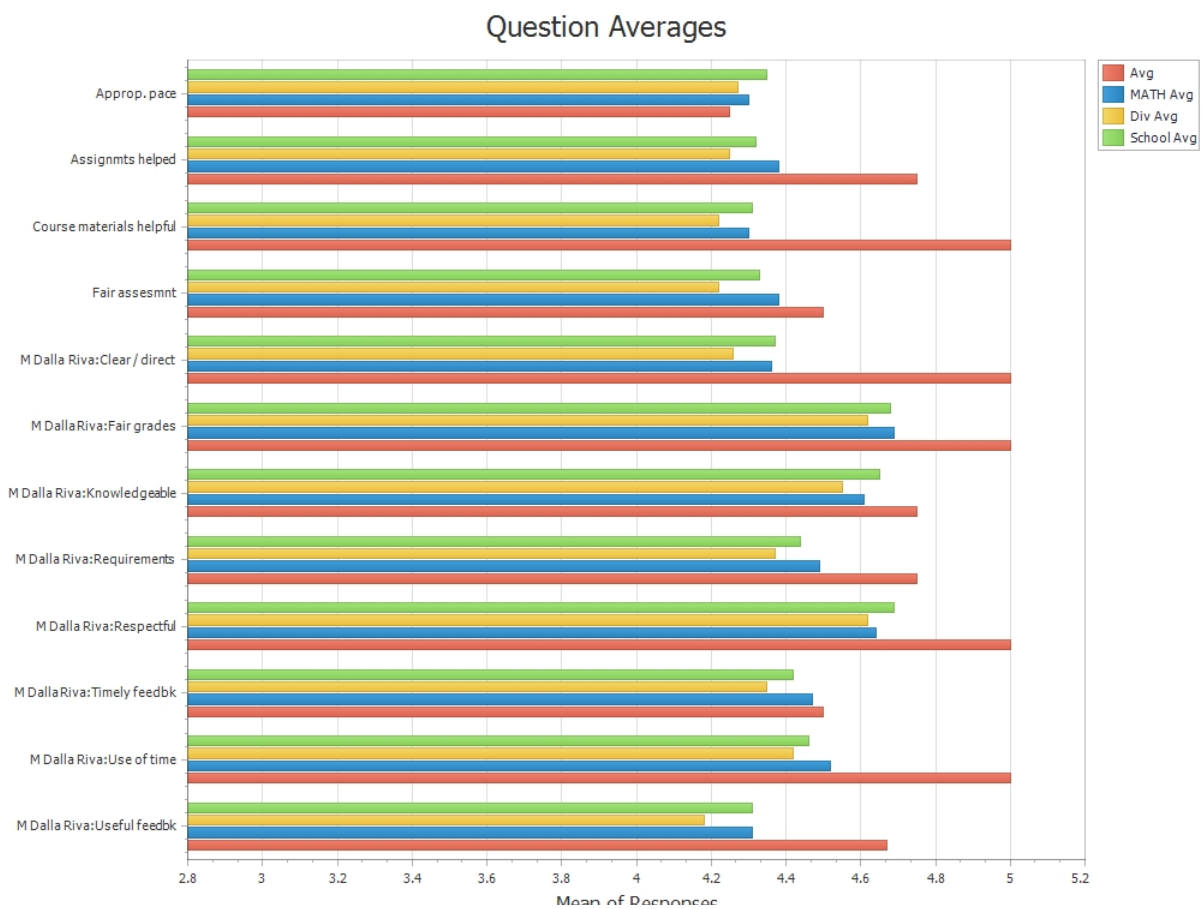
Dalla Riva, Matteo (MATH 7863) Nothing.



Fall 2018: **Linear Functional Analysis**

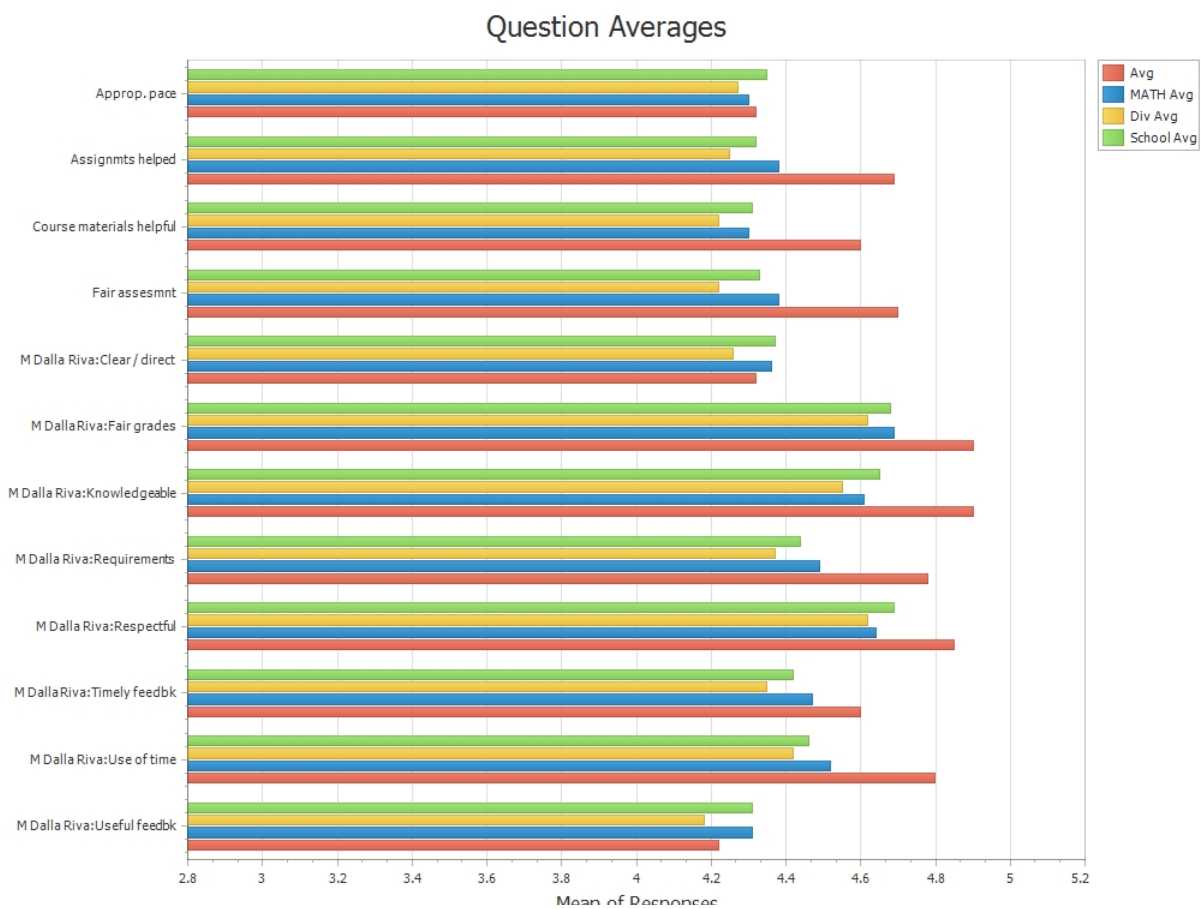


Spring 2018: Linear Functional Analysis



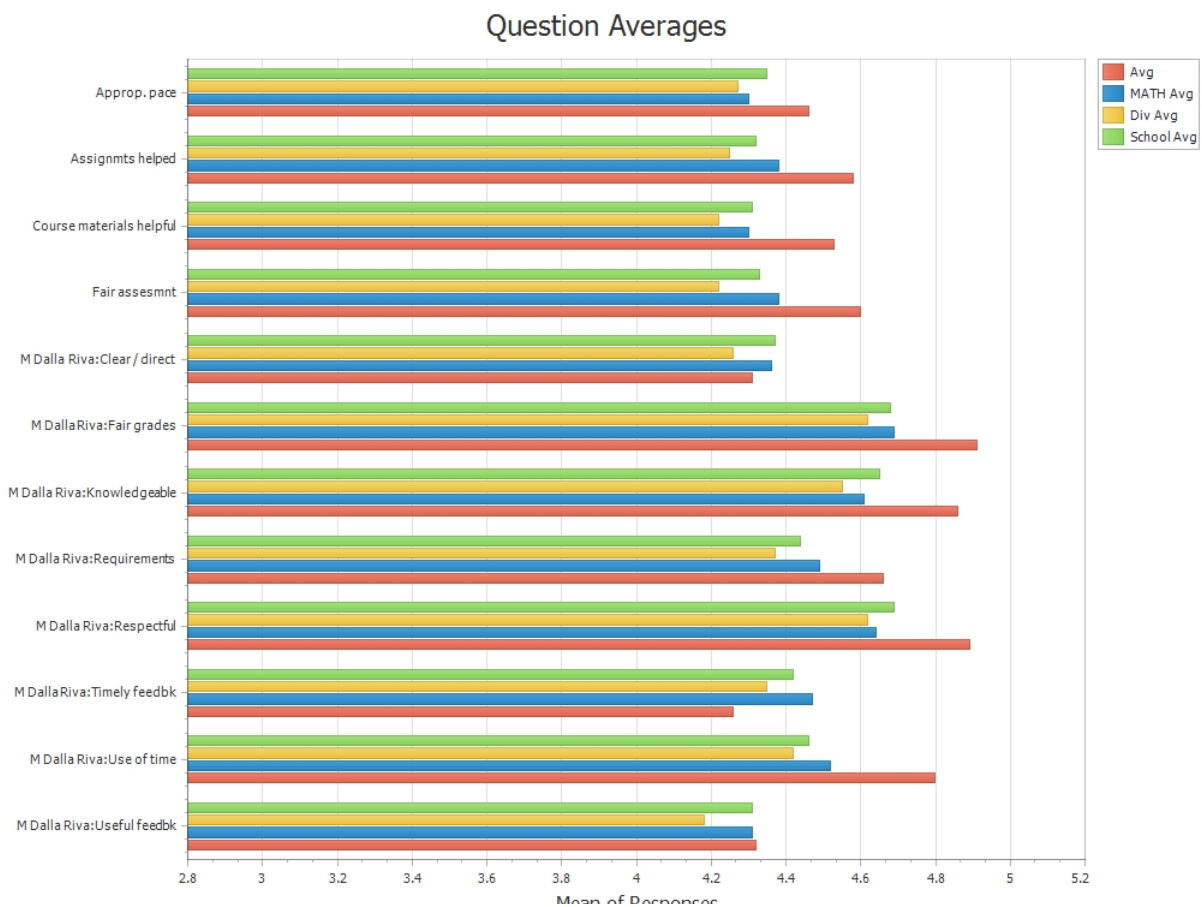
Page 67/68

Spring 2018: Differential Equations

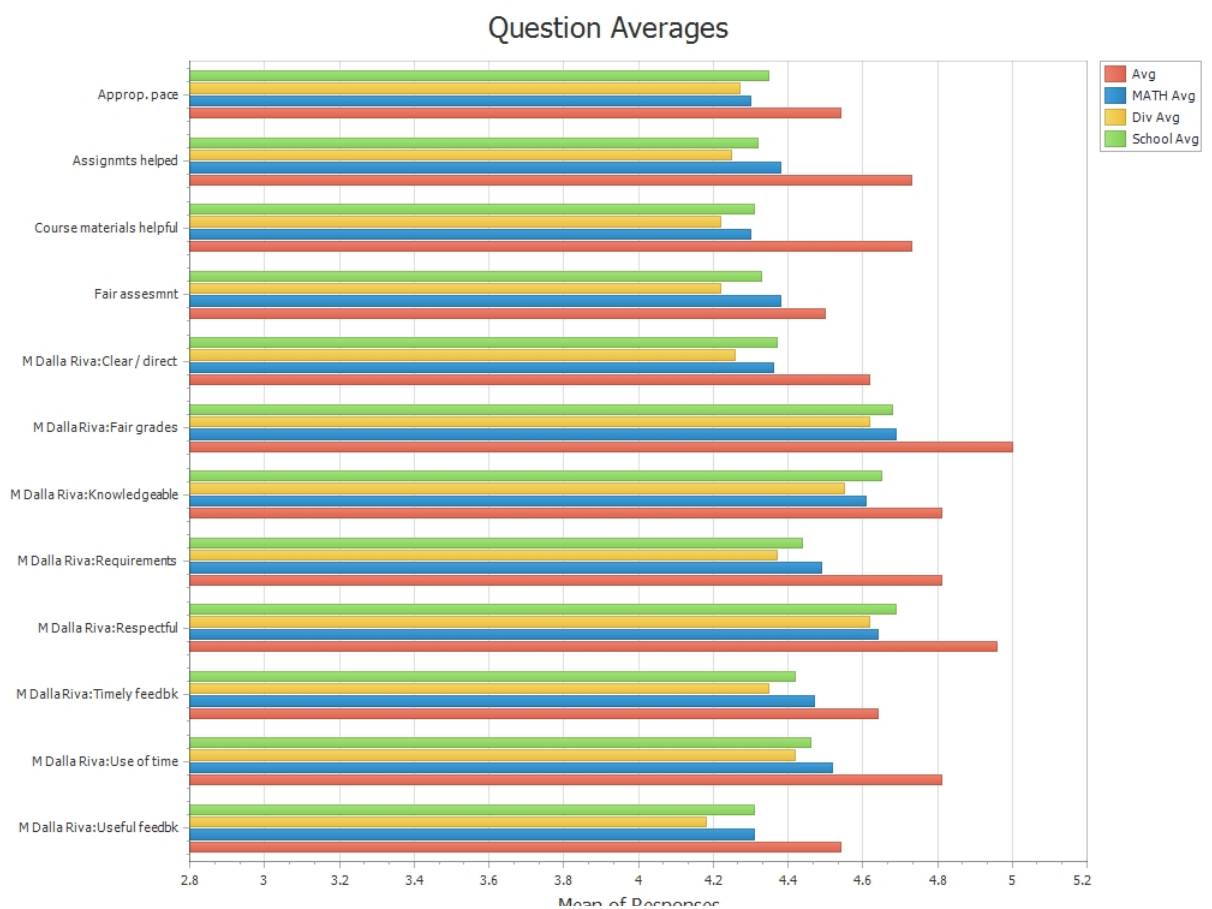


Page 8/68

Fall 2017: **Differential Equations** (first session)



Fall 2017: **Differential Equations** (second session)



Data: 24/07/2019

Luogo: Thiene (Vicenza)