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Pelegrí Viader

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Personal information

Pelegrí Viader, 67 years old.

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Presently Associate Professor with tenure. Mathematics. Departament of Economy and Business at Universitat Pompeu Fabra, Barcelona.

Degrees

BSc (Mathematics). Universitat de Barcelona, 1976.

Ph.D. in Mathematics. Universitat Politècnica de Catalunya, 1994.

Some teaching and administration positions

- 1/8/00 - : Associate Professor with tenure. Mathematics. Departament of Economy and Business at Universitat Pompeu Fabra, Barcelona.
- 1/10/91 - 1/8/00: Assistant Professor with tenure, Mathematics. Departament of Economy and Business at Universitat Pompeu Fabra, Barcelona.
- 1/10/87 - 31/04/91: Headmaster and Manager at Oak House School, British primary and secondary school in Barcelona.
- 1/01/99 - 30/03/2000: Director of the Business School, Universitat Pompeu Fabra, Barcelona.
- 1/06/2005 - 10/11/2008: Vicepresident of the UPF (Student Affairs and Admin Staff).
- 1/10/79-1/8/90: Instructor of Mathematics. School of Economics and Business. FERT / INEDE. Barcelona.
- 1/10/96-30/02/2005. External tutor at the Open University of Catalonia: Business Mathematics.
- 1/10/80-31/08/87: Head of the Mathematics Department, Antoni Cumella Secondary High School, Granollers and Valldemossa High School, Barcelona.
- 1/10/77 -30/09/79: Mathematics Instructor, Joan Boscà High School, Barcelona.

- 1994/95, 1995/96, 1996/97: Instructor at the Secondary School Teacher Training Master, School of Mathematics, Universitat de Barcelona.
- Curs 2000/01 -2014/15: Instructor at the MBA part-time of the Barcelona School of Management (BSM).
- 2006-2010: Director of the “Graduate Diploma of Mathematics for the Secondary School”, UPF.
- 2005-2008: Vice-president of the UPF, Student Affairs.
- 2010-2011: Director of the “Graduate Workshop of Mathematics for the Secondary School”, BSM/ UPF.
- 2009-2013: Director of the Secondary School Teacher Training Master, UPF joint with UOC.
- 2013-2017: Secretary General of the UPF.
- 2017- :Vicepresident adjunct to the Rector in charge of EUTOPIA UPF.

Publications

1. Vectors, Aplicacions Lineals y Formes Quadràtiques, Mòdul 3, Texto: ”Matemàtiques I, Empresarials”, Universitat Oberta de Catalunya. Barcelona 1996.
2. Espais Vectorials, Mòdul 3, Texto ”Algebra, Informàtica”, Universitat Oberta de Catalunya. Barcelona 1997.
3. Fòrum de Problemes, Cursos 1992/93 y 1993/94, Societat Catalana de Matemàtiques, Barcelona, 1994.
4. Fòrum de Problemes, Solucions dels problemes proposats el curs 1993/94, Societat Catalana de Matemàtiques, Barcelona, 1996.
5. Sessions de Preparació per a l’Olimpíada Matemàtica, Societat Catalana de Matemàtiques, (4 edicions, 1994,1995,1996,1997). Capítulo4: ”Polinomis”. Co–autor con Lluís Bibiloni.
6. “Història de les matemàtiques: cultura y didàctica”, (Joint with Lluís Bibiloni, Antoni Malet, Joan Miralles de Imperial, Jaume Paradís). Papers de Batxillerat, Junio de 1983, Barcelona.
7. “La història, una eina essencial per a la didàctica de les Matemàtiques”, (Joint with con Antoni Malet, Lluís Bibiloni, Joan Miralles de Imperial, Jaume Paradís). Butlletí de la Secció de Matemàtiques de l’IEC. Vol 14, Barcelona 1983.
8. “Biografía de Pierre de Fermat” web DIVULGAMAT, web of the RSME (Real Sociedad de Matemáticas de España) <http://www.divulgamat.net/weborriak/Historia/MateOspetsuak/Fermat.asp>

Research Publications

1. “Geomplot: Software Geométrico-Gráfico para MAPLE”, (Joint with Antoni Montes). Actas del TEMU 95’, 1995, pp 302-312, Servei de Pub. UPC.
2. “A non–quasi–competitive Cournot duopoly with stability”, (Joint with Ramon Villanova, Jaume Paradís). Keio Economic Studies, 38 (1) 2001, pp. 71–82.

3. “Price increase and Stability with new entries in Cournot markets” (Joint with Ramon Vilanova, Jaume Paradís y Joan Miralles–de–Imperial). Keio Economic Studies, 48, 2012, pp. 69–92.
4. “On a theorem over module decomposition”, Revista de la Universidad de Santander, 2 (II), 1979 pp. 857:863.
5. “On actually computable bijections between \mathbb{N} and \mathbb{Q}^+ ”, (Joint with Lluís Bibiloni, Jaume Paradís). Order, Journal on the theory of Ordered Sets and its applications, 13 (4), 1996, pp. 369:377.
6. “Descartes’ rule of signs and the classification of real quadratic forms”, Journal of Math. & Comp. Sci., Vol 9, No. 2 1996, pp. 181:186.
7. “Approximation of quadratic irrationals and their Pierce expansions”, (Joint with Lluís Bibiloni, Jaume Paradís). The Fibonacci Quarterly, 36 (2), 1998 pp. 146:153.
8. “A new light on Minkowski’s $\varphi(x)$ function”, (Joint with Lluís Bibiloni, Jaume Paradís). Journal of Number Theory, 73, 1998 pp. 212:227.
9. “Note on the Pierce expansion of a logarithm”, (Joint with Lluís Bibiloni, Jaume Paradís). The Fibonacci Quarterly, 37 (3), 1999 pp. 198:201.
10. “On a problem of Alfréd Rényi”, (Joint with Lluís Bibiloni, Jaume Paradís). Acta Arithmetica, 91 (2), 1999 pp. 107:115.
11. “A mathematical excursion: from the three–door problem to a Cantor–type set”, (Joint with Lluís Bibiloni, Jaume Paradís). American Mathematical Monthly, 106 (3), 1999 pp. 241:251.
12. “A total order in $(0, 1]$ defined through a ‘next’ operator”, (Joint with Lluís Bibiloni, Jaume Paradís). Order, 16 (3), 1999 (2000) pp. 207:220.
13. “The derivative of Minkowski’s $\varphi(x)$ function”. (Joint with Jaume Paradís, Lluís Bibiloni). Journal of Mathematical Analysis and Applications, 253, 2001 pp. 107–125.
14. “Els sistemes de representació del nombres reals (I)”. (Joint with Jaume Paradís, Joan Miralles de Imperial and Lluís Bibiloni). Butlletí de la Societat Catalana de Matemàtiques, IEC, 16 (2), 2001 pp. 91–120.
15. “On the Concept of Optimality Intervals”. (Joint with Jaume Paradís, Lluís Bibiloni). International Journal of Mathematics and Mathematical Sciences, 30, 2002 pp. 559:567.
16. “Fermat and the Quadrature of the Folium of Descartes”, (Co–autor con Josep Pla, Jaume Paradís). American Mathematical Monthly, 111 (3), 2004 pp. 216:229.
17. “On a Series of Goldbach and Euler”, (Joint with Lluís Bibiloni, Jaume Paradís). American Mathematical Monthly, 113 (3), 2006 pp. 206–220. (Lester R. Ford Award 2007 de la Mathematical Association of America (MAA) a la excelencia divulgativa.
18. “Riesz–Nagy singular functions revisited”, (Joint with Lluís Bibiloni, Jaume Paradís). Journal of Mathematical Analysis and Applications, 329 (1), 2007, pp. 592–602.
19. “Fermat’s Method of Quadrature”. (Joint with Josep Pla and Jaume Paradís). Revue d’Histoire des Mathématiques, 14 (1), 2008, pp. 5–51.
20. “Fibonacci, van der Corput and Riesz–Nagy”, (Joint with Lluís Bibiloni, Jaume Paradís). Journal of Mathematical Analysis and Applications, 362 (2), 2010, pp. 401–414.

21. “A New Singular Function”, (Joint with Lluís Bibiloni, Jaume Paradís), American Mathematical Monthly, 118 (4), 2011 pp. 344-354.
22. “A Singular Function with a non-zero Finite Derivative” (Joint with Juan Fernández, Manuel Díaz and Jaume Paradís). Nonlinear Analysis Theory Series A, 75 (13), 2012, pp. 5010–5014.
23. “A Singular Function with a non-zero Finite Derivative on a Dense set” (Joint with Juan Fernández, Manuel Díaz and Jaume Paradís). Nonlinear Analysis Theory Series A, 95 (2014) pp. 703–713.
24. “A singular function with a non-zero finite derivative on a dense set with Hausdorff dimension one” (Joint with Juan Fernández, Manuel Díaz and Jaume Paradís). Journal of Mathematical Analysis and Applications, 434 (1), 2016 pp. 713–728.

Books on History of Mathematics

1. “La Geometria de René Descartes. Introducció, traducció al català i notes”. (Joint with Josep Pla), IEC/EUMO/Pòrtic, Barcelona, 1999. ISBN: 84-7283-453-0
2. “Obra matemàtica vària de Pierre de Fermat. Introducció, traduccions de textos seleccionats al català i notes”. (Joint with Josep Pla and Jaume Paradís). IEC (Secció de Ciències i Tecnologia), Barcelona, 2008. ISBN 978-84-7283-979-3

Other activities

- Referee: Journal of Mathematics Analysis and Applications, Bulletin of the Korean Mathematical Society, Mathematical Reviews.
- Member of the Consell Escolar de Catalunya on behalf of the Catalan University System. 2007 – 2010.
- Member of the Board of the Societat Catalana de Matemàtiques. 1994 –2001.
- President of the committee CANGUR EUROPEU of the Societat Catalana de Matemàtiques. 1998 – 2001.
- President of the Examining Board for the Mathematics entrance examinations to the Catalan System of Universities. 2003 – 2005.
- Editor of the “Butlletí de la Societat Catalana de Matemàtiques” (biannual). 1994 – 2000.
- Editor of the Problem Corner of the NOTÍCIES, newsletter of the Societat Catalana de Matemàtiques (trimestral) 1996 – 2001.
- Editor of the electronic publications of the Societat Catalana de Matemàtiques. 2004–2010.
- President of the Mathematical Olympics Tribunal (Catalunya). 2004–2009.