

# The *Annals* Quadfecta 23

Librarian Margaret Fulford and Professor Jeffrey S. Rosenthal, University of Toronto, write:

The Institute for Mathematical Statistics (IMS) produces four flagship “Annals” research journals: *The Annals of Statistics*, *of Probability*, *of Applied Probability*, and *of Applied Statistics*. This led us to wonder which authors have accomplished the “Quadfecta” of publishing at least one paper in all four of these journals.

To investigate this question, we used MathSciNet to retrieve citations for all articles in the two “Applied” *Annals*. We then wrote a computer script to extract and compare all of the corresponding Mathematical Reviews author identification numbers, identifying 88 in common. Finally, we performed additional MathSciNet searches to determine which of those 88 authors had also published in the other two *Annals* (and when).

To our surprise, we found a total of 23 authors who have completed this Annals Quadfecta (see Table 1)—quite a high number, especially since the most recent *Annals (of Applied Statistics)* only commenced in 2007. These authors span quite a time frame, with year of first publication (in any journal) ranging from 1965 to 2012. But they have all accomplished the same special feat, of publishing at least once in all four of the IMS *Annals* journals.

We look forward to revisiting this question in future years, to see how quickly this “Annals Quadfecta” list grows, as time goes by.



Author Name	ID	Any	AOS	AOP	AOAP	AOAS	Quadfecta
Laurens de Haan	78885	1970	1974	1974	1998	2008	2008
Persi Diaconis	57595	1974	1979	1977	1991	2008	2008
Paul D. Feigin	65725	1976	1981	1981	1996	2009	2009
Avi Mandelbaum	119045	1981	1983	1987	1995	2009	2009
Michael Woodroffe	184490	1965	1974	1976	2008	2009	2009
Richard A. Davis	212811	1979	1984	1979	1993	2011	2011
Tze Leung Lai	109310	1971	1973	1973	2003	2011	2011
Wei-Liem Loh	306422	1988	1991	1992	1992	2011	2011
Jeffrey S. Rosenthal	334864	1992	1995	1994	1993	2011	2011
Benjamin Yakir	341906	1993	1993	2005	1998	2011	2011
Soumendra N. Lahiri	310114	1989	1992	1993	2009	2012	2012
Jingchen Liu	826318	2007	2012	2012	2012	2011	2012
Natesh S. Pillai	814778	2007	2012	2013	2012	2014	2014
David Siegmund	161745	1966	1974	1976	2016	2011	2016
M. H. A. Davis	55125	1972	1989	1974	1994	2017	2017
Stuart Geman	72335	1977	1982	1980	1995	2017	2017
Domenico Marinucci	656088	1999	2001	2018	2016	2009	2018
Andrew B. Nobel	326596	1992	1996	1998	2018	2008	2018
Tailen Hsing	89130	1984	1991	1995	1994	2019	2019
Lester Mackey	1051801	2012	2013	2014	2019	2017	2019
Bruno Rémillard	239911	1986	2007	1994	2019	2009	2019
Frederi G. Viens	607725	1996	2007	2000	2019	2014	2019
Gareth O. Roberts	306203	1990	2008	1991	1995	2020	2020

Table 1: A list of all 23 authors who have published in all four IMS *Annals* journals, showing their name, Mathematical Reviews author identification number, year of first publication in any MathSciNet-indexed journal, year of first publication in each of the four *Annals*, and year in which they completed their Quadfecta. (The list is ordered by Quadfecta year, and alphabetically by name within each year.)