

Women publishing in APA journals: a gender analysis of six decades.

Supplementary Material

Validation Study

To test the accuracy of our data, we followed a similar procedure to Larivière et al. (2013). These authors selected a random sample of authorships to manually check their gender identity. We randomly selected 384 authorships from the total of 154,988 authorships and manually identified the gender of each author by locating some biographical information or a photo on the Internet (see also González-Alvarez, 2017; González-Alvarez & Cervera-Crespo, 2017a, b). According to the formula:

$$\text{Sample size} = \frac{\frac{z^2 \times p(1-p)}{e^2}}{1 + \left(\frac{z^2 \times p(1-p)}{e^2 N}\right)}$$

where N = population size, e = margin of error, and z = z-score, 384 is the sample size corresponding to N= 154,988, e = 0.05, and a 95% confidence interval (online calculator at <https://www.surveymonkey.com/mp/sample-size-calculator/>).

After several attempts, the gender of 4 authorships could not be identified. The remaining 380 authorships corresponded to 246 men (64.7%) and 134 women (35.3%). The percent agreement was 96.3% for men and 95.5% for women. The gender proportions obtained were close to the overall rate of 63.8% men and 36.2% women

(see Results). The relative difference between the observed frequencies in the validation study (246 men, 134 women) and the expected frequencies according to the overall proportion (242.4 men, 137.6 women) was not significant, $X^2(1) = 0.15$; $p = 0.701$.

Table S1. Number of articles published in the APA Journals during the years studied (PsyARTICLES, 2017). The journals are in alphabetical order.

APA Journals (articles)	1963/67	1973/77	1983/87	1993/97	2003/07	2012/16	Total
American Psychologist	562	665	797	628	572	496	3,720
Archives of Scientific Psychology						26	26
Behavior Analysis: Research and Practice						39	39
Behavioral Development Bulletin					19	91	110
Behavioral Neuroscience			498	610	738	376	2,222
Developmental Psychology		677	568	473	465	931	3,114
Emotion					251	576	827
Experimental and Clinical Psychopharmacology				204	209	273	686
Health Psychology			199	321	429	740	1,689
History of Psychology					97	144	241
Journal of Abnormal Psychology	211	468	291	377	369	480	2,196
Journal of Applied Psychology	430	684	420	403	524	459	2,920
Journal of Comparative and Physiological Psychology ^a	1,013	1,012					2,025
Journal of Comparative Psychology			250	216	245	214	925
Journal of Consulting and Clinical Psychology ^b		894	713	654	564	522	3,347
Journal of Consulting Psychology	618						618
Journal of Counseling Psychology	401	534	364	247	241	313	2,100
Journal of Educational Psychology	258	562	369	278	311	388	2,166
Journal of Experimental Psychology	1,227	724					1,951
Journal of Exp. Psychology: Animal Behavior Processes		92	179	164	188	77	700
Journal of Exp. Psychology: Animal Learning and Cognition						111	111
Journal of Experimental Psychology: Applied				53	103	165	321
Journal of Experimental Psychology: General		52	114	102	169	551	988
Journal of Exp. Psychology: Human Learning and Memory		248					248
Journal of Exp. Psychology: Human Perception and Performance		162	275	432	455	768	2,092
Journal of Exp. Psychology: Learning, Memory, and Cognition ^c			295	470	490	699	1,954
Journal of Family Psychology			13	178	340	508	1,039
Journal of Personality and Social Psychology	670	983	1,243	906	698	594	5,094
Journal of Theoretical and Philosophical Psychology				48	61	98	207

Neuropsychology			12	287	363	423	1,085
Prevention & Treatment				1	6		6
Professional Psychology		390					390
Professional Psychology: Research and Practice ^d			479	406	437	292	1,614
Psychological Assessment				301	244	668	1,213
Psychological Bulletin	307	342	294	229	176	210	1,558
Psychological Methods				54	133	165	352
Psychological Monographs: General and Applied	70						70
Psychological Review	191	125	105	157	174	161	913
Psychology and Aging			97	314	360	478	1,249
Psychology of Addictive Behaviors			22	134	279	606	1,041
Psychology of Aesthetics, Creativity, and the Arts					37	223	260
Psychology, Public Policy, and Law				72	84	171	327
Psychotherapy ^e						297	297
Psychotherapy: Theory, Research & Practice	144	379	61				584
Psychotherapy: Theory, Research, Practice, Training			336	349	188		873
Rehabilitation Psychology		66	105	101	228	230	730
The Behavior Analyst Today					192	18	210
The Journal of Abnormal and Social Psychology	423						423
Theoretical & Philosophical Psychology			37				37
Training and Education in Professional Psychology					41	176	217
Total:	6,525	9,059	8,136	9,169	10,480	13,757	57,126

^a In 1982, the journal was split into *Behavioral Neuroscience* and *Journal of Comparative Psychology*, both included in the table.

^b Before 1968, the name of the journal was *Journal of Consulting Psychology*, also included in the table.

^c Before 1980, the name of the journal was *Journal of Experimental Psychology: Human Learning and Memory*, also included in the table.

^d Before 1970, the name of the journal was *Professional Psychology*, also included in the table.

^e *Psychotherapy* was previously called *Psychotherapy: Theory, Research & Practice*, and *Psychotherapy: Theory, Research, Practice, Training*, both included in the table.

Table S2. Gender distribution of Authorships and Authors (individuals) of articles published in the APA Journals during the years 1963-2016. Gender percentages refer to gender-identified values.

Years	Articles	Authorships				Authors			
		Total	Gender Identified	Men. (%)	Women (%)	Total	Gender Identified	Men (%)	Women (%)
1963	1,099	1,859	1,662	1,429 (86.0)	233 (14.0)	1,535	1,350	1,144 (84.7)	206 (15.3)
1964	1,193	1,979	1,761	1,542 (87.6)	219 (12.4)	1,634	1,435	1,237 (86.2)	198 (13.8)
1965	1,334	2,190	1,998	1,769 (88.5)	229 (11.5)	1,805	1,624	1,407 (86.6)	217 (13.4)
1966	1,447	2,414	2,182	1,908 (87.4)	274 (12.6)	1,956	1,740	1,501 (86.3)	239 (13.7)
1967	1,452	2,438	2,231	1,927 (86.4)	304 (13.6)	2,033	1,845	1,570 (85.1)	275 (14.9)
1973	2,006	3,696	3,386	2,806 (82.9)	580 (17.1)	3,169	2,877	2,350 (81.7)	527 (18.3)
1974	2,044	3,773	3,464	2,857 (82.5)	607 (17.5)	3,205	2,919	2,362 (80.9)	557 (19.1)
1975	1,903	3,715	3,434	2,762 (80.4)	672 (19.6)	3,175	2,911	2,298 (78.9)	613 (21.1)
1976	1,611	3,146	2,917	2,252 (77.2)	665 (22.8)	2,729	2,511	1,904 (75.8)	607 (24.2)
1977	1,495	2,866	2,640	2,088 (79.1)	552 (20.9)	2,536	2,318	1,807 (78.0)	511 (22.0)
1983	1,504	3,222	3,001	2,194 (73.1)	807 (26.9)	2,844	2,627	1,885 (71.8)	742 (28.2)
1984	1,577	3,365	3,141	2,264 (72.1)	877 (27.9)	2,957	2,739	1,937 (70.7)	802 (29.3)
1985	1,664	3,625	3,422	2,408 (70.4)	1,014 (29.6)	3,196	2,997	2,058 (68.7)	939 (31.3)
1986	1,677	3,742	3,523	2,459 (69.8)	1,064 (30.2)	3,240	3,030	2,069 (68.3)	961 (31.7)
1987	1,714	3,800	3,546	2,441 (68.8)	1,105 (31.2)	3,303	3,059	2,055 (67.2)	1,004 (32.8)
1993	1,795	4,509	4,236	2,767 (65.3)	1,469 (34.7)	3,881	3,617	2,285 (63.2)	1,332 (36.8)
1994	1,759	4,542	4,266	2,738 (64.2)	1,528 (35.8)	3,915	3,650	2,257 (61.8)	1,393 (38.2)
1995	1,824	4,846	4,497	2,883 (64.1)	1,614 (35.9)	4,152	3,822	2,394 (62.6)	1,428 (37.4)
1996	1,923	5,152	4,787	3,030 (63.3)	1,757 (36.7)	4,426	4,078	2,503 (61.4)	1,575 (38.6)
1997	1,868	5,154	4,746	2,972 (62.6)	1,774 (37.4)	4,422	4,033	2,441 (60.5)	1,592 (39.5)
2003	1,943	5,975	5,503	3,291 (59.8)	2,212 (40.2)	5,141	4,689	2,726 (58.1)	1,963 (41.9)
2004	1,921	6,031	5,548	3,291 (59.3)	2,257 (40.7)	5,240	4,776	2,739 (57.3)	2,037 (42.7)
2005	2,095	6,583	6,053	3,641 (60.2)	2,412 (39.8)	5,646	5,129	2,963 (57.8)	2,166 (42.2)
2006	2,225	6,952	6,343	3,788 (59.7)	2,555 (40.3)	5,941	5,360	3,073 (57.3)	2,287 (42.7)

2007	2,296	7,517	6,878	3,958 (57.5)	2,920 (42.5)	6,385	5,769	3,193 (55.3)	2,576 (44.7)
2012	2,592	9,378	8,566	4,763 (55.6)	3,803 (44.4)	7,819	7,047	3,745 (53.1)	3,302 (46.9)
2013	2,750	10,057	9,172	4,947 (53.9)	4,225 (46.1)	8,467	7,621	3,934 (51.6)	3,687 (48.4)
2014	2,961	11,180	10,133	5,389 (53.2)	4,744 (46.8)	9,312	8,318	4,247 (51.1)	4,071 (48.9)
2015	2,736	10,640	9,569	5,079 (53.1)	4,490 (46.9)	9,029	8,012	4,086 (51.0)	3,926 (49.0)
2016	2,718	10,642	9,518	5,008 (52.6)	4,510 (47.4)	9,093	8,026	4,101 (51.1)	3,925 (48.9)
TOTAL:	57,126	154,988	142,123	90,651 (63.8)	51,472 (36.2)	132,186*	119,929	74,271 (61.9)	45,658 (38.1)

*The Authors totals are different from those in Table 1 because in this table totals include duplicates between years.