The Average AMS fellow who died before Aug. 2022 lived 83.36 years, published 98.53 papers, and was cited 2473.23 times

Livia A. STONE and Doron ZEILBERGER

Abstract: Using data collected from the AMS websites, and the internet in general, we compute the weight-enumerator of the set of 145 AMS fellows who passed away before Aug. 2022, according to the statistics [Age, Number of Publications, Number of Citations]. Using Maple and elementary calculus, we deduced from it the numbers stated in the title, as well as much more detailed and fascinating statistical information. For example, while the correlation coefficient between the number of publications and number of citations is, not surprisingly, positive, it is far lower than one would expect, being a mere 0.5797 . The appendices contain the rankings according to longevity, number of publications, and number of citations.

Lemma: The weight-enumerator of the set of AMS fellows who died before Aug. 2022, where the weight of a fellow is

$$a^{AgeAtDeath}\, p^{NumberOfPublications}\, c^{NumberOfCitations} \quad ,$$

let's call it $F(a,p,c)$, is the following polynomial of degree 100 in a, degree 453 in p, and degree 27492 in c:

$$F(a,p,c) =$$

$$c^{173}p^{24}a^{48} + \left(c^{2898}p^{122} + c^{1859}p^{111}\right)a^{58} + \left(c^{2116}p^{48} + c^{1265}p^{57}\right)a^{59} + c^{8482}p^{113}a^{60} + c^{101}p^{40}a^{63}$$

$$+ \left(c^{9810}p^{453} + c^{882}p^{46}\right)a^{65} + \left(c^{2084}p^{84} + c^{1337}p^{92} + c^{366}p^{39}\right)a^{66} + c^{3924}p^{117}a^{68} + c^{756}p^{55}a^{70}$$

$$+c^{11987}p^{323}a^{72} + \left(c^{1692}p^{133} + c^{734}p^{50}\right)a^{73} + \left(c^{6030}p^{122} + c^{2677}p^{186} + c^{1624}p^{77} + c^{341}p^{18}\right)a^{74}$$

$$+ \left(c^{749}p^{47} + c^{658}p^{42} + c^{145}p^{25}\right)a^{75} + \left(c^{3918}p^{106} + c^{1867}p^{107} + c^{1781}p^{136} + c^{1309}p^{183}\right)a^{76}$$

$$+ \left(c^{2137}p^{175} + c^{451}p^{45}\right)a^{77} + \left(c^{4633}p^{189} + c^{4068}p^{132} + c^{1891}p^{66} + c^{914}p^{61}\right)a^{78}$$

$$+ \left(c^{2563}p^{48} + c^{1596}p^{65} + c^{1550}p^{70} + c^{181}p^{34} + c^{157}p^{29}\right)a^{79}$$

$$+ \left(c^{3732}p^{168} + c^{1370}p^{49} + c^{503}p^{33} + c^{428}p^{23} + c^{281}p^{37}\right)a^{80}$$

$$+ \left(c^{15121}p^{159} + c^{1937}p^{166} + c^{873}p^{31} + c^{560}p^{67} + c^{121}p^{39}\right)a^{81}$$

$$+ \left(c^{4096}p^{181} + c^{2776}p^{138} + c^{2336}p^{149} + c^{2111}p^{190} + c^{2035}p^{64} + c^{1507}p^{84} + c^{1281}p^{164}\right)a^{82}$$

$$+ \left(c^{2604}p^{79} + c^{1746}p^{153} + c^{1658}p^{81} + c^{1509}p^{78} + c^{781}p^{26} + c^{133}p^{27}\right)a^{83}$$

$$+ \left(c^{3509}p^{118} + c^{3484}p^{82} + c^{1497}p^{146} + c^{1510}p^{53} + c^{1172}p^{74} + c^{542}p^{46} + c^{526}p^{34} + c^{336}p^{23} + c^{161}p^{31}\right)a^{84}$$

$$+ \left(c^{7500}p^{363} + c^{4772}p^{193} + c^{4490}p^{126} + c^{2116}p^{164} + c^{1231}p^{47}\right)a^{85}$$

$$+ \left(c^{4802}p^{163} + c^{2165}p^{57} + c^{1826}p^{66} + c^{1118}p^{71} + c^{452}p^{46} + c^{275}p^{42}\right)a^{86}$$

$$+\left(c^{27492}p^{237}+c^{3185}p^{29}+c^{2519}p^{71}+c^{1642}p^{105}+c^{1211}p^{31}+c^{978}p^{41}\right)a^{87}$$

$$+\left(c^{2845}p^{102}+c^{1850}p^{106}+c^{1726}p^{69}+c^{1173}p^{49}+c^{1146}p^{29}+c^{1086}p^{81}+c^{426}p^{35}+c^{142}p^{19}+c^{12}p^{11}\right)a^{88}+$$

$$(c^{6664}p^{115}+c^{5937}p^{180}+c^{4743}p^{200}+c^{4367}p^{114}+c^{4066}p^{167}+c^{3814}p^{271}+c^{2248}p^{101}+c^{1610}p^{89}+c^{1130}p^{159}$$

$$+c^{1107}p^{111}+c^{1054}p^{61}+c^{791}p^{87}+c^{239}p^{99})a^{89}+$$

$$\left(c^{12281}p^{269}+c^{3685}p^{110}+c^{2851}p^{222}+c^{145}p^{37}\right)a^{90}$$

$$+\left(c^{2639}p^{288}+c^{1183}p^{57}+c^{664}p^{118}+c^{525}p^{39}+c^{152}p^{17}+c^{52}p^{36}\right)a^{91}$$

$$+\left(c^{1601}p^{59}+c^{1065}p^{59}+c^{498}p^{99}\right)a^{92}$$

$$+\left(c^{8722}p^{114}+c^{4107}p^{70}+c^{3655}p^{321}+c^{3633}p^{105}+c^{2886}p^{87}+c^{2128}p^{178}+c^{1254}p^{37}+c^{41}p^{19}\right)a^{93}$$

$$+\left(c^{5626}p^{95}+c^{1295}p^{82}+c^{214}p^{27}+c^{2}p^{5}\right)a^{94}+\left(c^{17621}p^{175}+c^{586}p^{58}+c^{400}p^{182}\right)a^{95}$$

$$+\left(c^{1632}p^{90}+c^{712}p^{46}+c^{206}p^{66}\right)a^{96}+$$

$$\left(c^{5215}p^{96}+c^{778}p^{75}\right)a^{97}+c^{272}p^{86}a^{99}+c^{401}p^{93}a^{100} \quad .$$

First we turn the enumeration generating function to a probability generating function by dividing by $F(1,1,1)=145$.

$$f(a,p,c):=\frac{F(a,p,c)}{F(1,1,1)}=\frac{1}{145}F(a,p,c) \quad .$$

We are now ready to prove our theorem.

Theorem :

• The average age at death of an AMS Fellow who died before Aug. 2022 is 83.3655, the standard deviation is 9.343, the skewness is, -1.079, and the kurtosis is 4.3277.

• The average number of publications is 98.531, the standard deviation is 73.942, the skewness is 1.757, and the kurtosis is 7.1779.

• The average number of citations is 2473.234, the standard deviation is 3455.194, the skewness is 3.97, and the kurtosis is, 23.993.

• The correlation coefficient between the age at death and the number of publications is 0.003, between the age at death and the number of citations is 0.011, while the correlation between the number of publications and number of citations is 0.57973.

Proof: We have, of course

$$\mu_{age}=\frac{\partial}{\partial a}f(a,p,c)\big|_{a=1,p=1.c=1} \quad ,$$

$$\mu_{pub} = \frac{\partial}{\partial p} f(a,p,c)\Big|_{a=1,p=1.c=1} \quad ,$$

$$\mu_{cit} = \frac{\partial}{\partial c} f(a,p,c)\Big|_{a=1,p=1.c=1} \quad .$$

Now, let's define

$$\bar{f}(a,p,c) := \frac{f(a,p,c)}{a^{\mu_{age}}\, p^{\mu_{pub}}\, c^{\mu_{cit}}} \quad .$$

We have, of course, that the **moments about the mean** are:

$$M_{r,s,t} = E[(age - \mu_{age})^r\,(pub - \mu_{pub})^s\,(cit - \mu_{cit})^t] = \left(a\frac{\partial}{\partial a}\right)^r \left(p\frac{\partial}{\partial p}\right)^s \left(c\frac{\partial}{\partial c}\right)^t \bar{f}(a,p,c)\Big|_{a=1,p=1,c=1} \quad ,$$

and finally the **scaled moments** are

$$\alpha_{r,s,t} \; = \; \frac{M_{r,s,t}}{M_{2,0,0}^{r/2} M_{0,2,0}^{s/2} M_{0,0,2}^{t/2}} \quad .$$

The numbers stated in the theorem are, respectively,

- μ_{age}, $\sqrt{M_{2,0,0}}$, $\alpha_{3,0,0}$, $\alpha_{4,0,0}$
- μ_{pub}, $\sqrt{M_{0,2,0}}$, $\alpha_{0,3,0}$, $\alpha_{0,4,0}$
- μ_{cit}, $\sqrt{M_{0,0,2}}$, $\alpha_{0,0,3}$, $\alpha_{0,0,4}$
- $\alpha_{1,1,0}$, $\alpha_{1,0,1}$, $\alpha_{0,1,1}$.

Appendix I: The Dead AMS Fellows According to Age

Here are all the dead fellows listed, in decreasing order of their age at death, followed by their number of publications and number of citations in MathSciNet (viewed Aug. 2022).

There was 1 fellow who died at the age of **100**

Maurice H. Heins (1915-2015) 93;401

There was 1 fellow who died at the age of **99**

Lee Lorch (1915-2014) 86;272

There were 2 fellows who died at the age of **97**

Komaravolu Chandrasekharan (1920-2017) 75;778

Isadore M. Singer (1924-2021) 96;5215

There were 3 fellows who died at the age of **96**

Jane Cronin Scanlon (1922-2018) 66;206

Bjarni Jonsson (1920-2016) 90;1632

Richard D. Schafer (1918-2014) 46;712

There were 3 fellows who died at the age of **95**

Edgar H. Brown (1926-2021) 58;586

Donald A.S. Fraser (1925-2020) 182;400

Louis Nirenberg (1925-2020) 175;17621

There were 4 fellows who died at the age of **94**

Lida K. Barrett (1927-2021) 5;2

Cathleen Synge Morawetz (1923-2017) 82;1295

John T. Tate (1925-2019) 95;5626

John H. Walter (1927-2021) 27;214

There were 8 fellows who died at the age of **93**

Tom M. Apostol (1923-2016) 87;2886

Arthur Herbert Copeland (1926-2019) 19;41

Richard V. Kadison (1925-2018) 105;3633

Joseph B. Keller (1923-2016) 321;3655

John C. Moore (1923-2016) 37;1254

Murray Rosenblatt (1926-2019) 178;2128

Lloyd Stowell Shapley (1923-2016) 70;4107

Guido Weiss (1928-2021) 114;8722

There were 3 fellows who died at the age of **92**

Edward Fadell (1926-2018) 59;1065

Walter Noll (1925-2017) 59;1601

Herman Rubin (1926-2018) 99;498

There were 6 fellows who died at the age of **91**

Harvey Cohn (1923-2014) 118;664

Jean-Pierre Kahane (1926-2017) 288;2639

Arthur P. Mattuck (1930-2021) 17;152

Isaac Namioka (1928-2019) 57;1183

Howard Osborn (1928-2019) 36;52

Maurice Sion (1927-2018) 39;525

There were 4 fellows who died at the age of **90**

Steve Armentrout (1930-2020) 37;145

Sir Michael Atiyah (1929-2019) 269;12281

Manfredo P. doCarmo (1928-2018) 110;3685

Eugene B. Dynkin (1924-2014) 222;2851

There were 13 fellows who died at the age of **89**

Felix E. Browder (1927-2016) 200;4743

Jim Douglas, Jr. (1927-2016) 180;5937

Branko Grunbaum (1929-2018) 271;3814

Junichi Igusa (1924-2013) 89;1610

Bertram Kostant (1928-2017) 114;4367

Wilhelmus Luxemburg (1929-2018) 111;1107

Sibe Mardeic (1927-2016) 159;1130

Albert Nijenhuis (1926-2015) 61;1054

Vera Pless (1931-2020) 101;2248

Mary Ellen Rudin (1924-2013) 87;791

Victor L. Shapiro (1924-2013) 99;239

Hans Weinberger (1928-2017) 115;6664

Harold Widom (1932-2021) 167;4066

There were 9 fellows who died at the age of **88**

William Bade (1924-2012) 35;426

Richard L. Bishop (1931-2019) 49;1173

Solomon Feferman (1928-2016) 29;1146

Ronald K. Getoor (1929-2017) 106;1850

Heini Halberstam (1926-2014) 81;1086

James M. Kister (1930-2018) 19;142

Carole B. Lacampagne (1933-2021) 11;12

Ernest A. Michael (1925-2013) 102;2845

Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726

There were 6 fellows who died at the age of **87**

Elliott Ward Cheney, Jr. (1929-2016) 105;1642

Robert Ellis (1926-2013) 41;978

John Hempel (1935-2022) 31;1211

John F. Nash, Jr. (1928-2015) 29;3185

Robert R. Phelps (1926-2013) 71;2519

Elias M. Stein (1931-2018) 237;27492

There were 6 fellows who died at the age of **86**

Richard Askey (1933-2019) 163;4802

Donald L. Burkholder (1927-2013) 57;2165

Pierre E. Conner, Jr. (1932-2018) 71;1118

Louis Howard (1929-2015) 42;275

Rudolf Kalman (1930-2016) 66;1826

Ray Kunze (1928-2014) 46;452

There were 5 fellows who died at the age of **85**

Roy Adler (1931-2016) 47;1231

Peter Duren (1935-2020) 126;4490

Ronald Graham (1935-2020) 363;7500

Andras Hajnal (1931-2016) 164;2116

Harry Kesten (1931-2016) 193;4772

There were 9 fellows who died at the age of **84**

Donald Babbitt (1936-2020) 31;161

Robert J. Blattner (1931-2015) 23;336

Harold M. Edwards (1936-2020) 46;542

Edward G. Effros (1935-2019) 82;3484

Paul Fife (1930-2014) 118;3509

Solomon Golomb (1932-2016) 146;1497

Jacques Jean-Pierre Neveu (1932-2016) 74;1172

Robert T. Seeley (1932-2016) 53;1510

Henry Wente (1936-2020) 34;526

There were 6 fellows who died at the age of **83**

JMichael Boardman (1938-2021) 26;781

W. Wistar Comfort (1933-2016) 153;1746

Richard Pollack (1935-2018) 81;1658

Charles J. Stone (1936-2019) 79;2604

Joseph F. Traub (1932-2015) 78;1509

Alphonse T. Vasquez (1938-2021) 27;133

There were 7 fellows who died at the age of **82**

Shreeram Abhyankar (1930-2012) 190;2111

Richard M. Dudley (1938-2020) 138;2776

Clifford John Earle, Jr. (1935-2017) 84;1507

Mark Mahowald (1931-2013) 164;1281

Edward Nelson (1932-2014) 64;2035

Joel A. Smoller (1935-2017) 181;4096

Veeravalli S. Varadarajan (1937-2019) 149;2336

There were 5 fellows who died at the age of **81**

Kenneth I. Appel (1932-2013) 31;873

Gilbert Baumslag (1933-2014) 166;1937

Samuel Gitler (1933-2014) 67;560

Lars Hormander (1931-2012) 159;15121

Aderemi Oluyomi Kuku (1941-2022) 39;121

There were 5 fellows who died at the age of **80**

Ronald G. Douglas (1938-2018) 168;3732

Robert M. Miura (1938-2018) 49;1370

Paul J. Sally, Jr. (1933-2013) 37;281

Charles C. Sims (1937-2017) 33;503

Myles Tierney (1937-2017) 23;428

There were 5 fellows who died at the age of **79**

Alan Baker (1939-2018) 65;1596

Elwyn Berlekamp (1940-2019) 70;1550

Aldridge Bousfield (1941-2020) 48;2563

Kenneth I. Gross (1938-2017) 34;181

Lesley M. Sibner (1934-2013) 29;157

There were 4 fellows who died at the age of **78**

Joyce R. McLaughlin (1939-2017) 61;914

George R. Sell (1937-2015) 132;4068

Robert Strichartz (1943-2021) 189;4633

William A. Veech (1938-2016) 66;1891

There were 2 fellows who died at the age of **77**

David Cantor (1935-2012) 45;451

Lawrence Shepp (1936-2013) 175;2137

There were 4 fellows who died at the age of **76**

Frederick R. Cohen (1946-2022) 136;1781

Vladimir F. Demyanov (1938-2014) 183;1309

Peter M. Gruber (1941-2017) 107;1867

Thomas M. Liggett (1944-2020) 106;3918

There were 3 fellows who died at the age of **75**

Paul Chernoff (1942-2017) 42;658

Samuel M. Rankin, III (1945-2020) 25;145

Clarence W. Wilkerson, Jr. (1944-2019) 47;749

There were 4 fellows who died at the age of **74**

Colin J. Bushnell (1947-2021) 77;1624

Anatole Katok (1944-2018) 122;6030

Lynn Arthur Steen (1941-2015) 18;341

Jan C. Willems (1939-2013) 186;2677

There were 2 fellows who died at the age of **73**

Georgia Benkart (1949-2022) 133;1692

Oscar E. Lanford, III (1940-2013) 50;734

There was 1 fellow who died at the age of **72**

Andrew J. Majda (1949-2021) 323;11987

There was 1 fellows who died at the age of **70**

Steven M. Zucker (1949-2019) 55;756

There was 1 fellow who died at the age of **68**

Vaughan F. R. Jones (1952-2020) 117;3924

There were 3 fellows who died at the age of **66**

Walter Craig (1953-2019) 84;2084

Stephen A. Mitchell (1951-2017) 39;366

Edward Odell (1947-2013) 92;1337

There were 2 fellows who died at the age of **65**

Jonathan Michael Borwein (1951-2016) 453;9810

David Goss (1952-2017) 46;882

There was 1 fellows who died at the age of **63**

Lynne H. Walling (1958-2021) 40;101

There was 1 fellow who died at the age of **60**

Andrei V. Zelevinsky (1953-2013) 113;8482

There were 2 fellows who died at the age of **59**

Tim D. Cochran (1955-2014) 57;1265

John Roe (1959-2018) 48;2116

There were, 2, fellows who died at the age of **58**

Nikolai Chernov (1956-2014) 111;1859

Robin Thomas (1962-2020) 122;2898

There was 1 fellow who died at the age of **48**

Thomas Nevins (1972-2020) 24;173

Appendix II: Ranking the AMS Fellows who died before Aug. 2022 According to Decreasing Number of Publications

Here is the list of all 145 dead AMS fellows in decreasing order of their number of publications. It lists the year of birth, year of death, number of publications, and number of citations.

1. Jonathan Michael Borwein (1951-2016) 453;9810

2. Ronald Graham (1935-2020) 363;7500

3. Andrew J. Majda (1949-2021) 323;11987

4. Joseph B. Keller (1923-2016) 321;3655

5. Jean-Pierre Kahane (1926-2017) 288;2639

6. Branko Grunbaum (1929-2018) 271;3814

7. Sir Michael Atiyah (1929-2019) 269;12281

8. Elias M. Stein (1931-2018) 237;27492

9. Eugene B. Dynkin (1924-2014) 222;2851

10. Felix E. Browder (1927-2016) 200;4743

11. Harry Kesten (1931-2016) 193;4772

12. Shreeram Abhyankar (1930-2012) 190;2111

13. Robert Strichartz (1943-2021) 189;4633

14. Jan C. Willems (1939-2013) 186;2677

15. Vladimir F. Demyanov (1938-2014) 183;1309

16. Donald A.S. Fraser (1925-2020) 182;400

17. Joel A. Smoller (1935-2017) 181;4096

18. Jim Douglas, Jr. (1927-2016) 180;5937

19. Murray Rosenblatt (1926-2019) 178;2128

20. Lawrence Shepp (1936-2013) 175;2137

21. Louis Nirenberg (1925-2020) 175;17621
22. Ronald G. Douglas (1938-2018) 168;3732
23. Harold Widom (1932-2021) 167;4066
24. Gilbert Baumslag (1933-2014) 166;1937
25. Mark Mahowald (1931-2013) 164;1281
26. Andras Hajnal (1931-2016) 164;2116
27. Richard Askey (1933-2019) 163;4802
28. Sibe Mardesic (1927-2016) 159;1130
29. Lars Hormander (1931-2012) 159;15121
30. W. Wistar Comfort (1933-2016) 153;1746
31. Veeravalli S. Varadarajan (1937-2019) 149;2336
32. Solomon Golomb (1932-2016) 146;1497
33. Richard M. Dudley (1938-2020) 138;2776
34. Frederick R. Cohen (1946-2022) 136;1781
35. Georgia Benkart (1949-2022) 133;1692
36. George R. Sell (1937-2015) 132;4068
37. Peter Duren (1935-2020) 126;4490
38. Robin Thomas (1962-2020) 122;2898
39. Anatole Katok (1944-2018) 122;6030
40. Paul Fife (1930-2014) 118;3509
41. Harvey Cohn (1923-2014) 118;664
42. Vaughan F. R. Jones (1952-2020) 117;3924
43. Hans Weinberger (1928-2017) 115;6664
44. Guido Weiss (1928-2021) 114;8722
45. Bertram Kostant (1928-2017) 114;4367

46. Andrei V. Zelevinsky (1953-2013) 113;8482

47. Wilhelmus Luxemburg (1929-2018) 111;1107

48. Nikolai Chernov (1956-2014) 111;1859

49. Manfredo P. doCarmo (1928-2018) 110;3685

50. Peter M. Gruber (1941-2017) 107;1867

51. Thomas M. Liggett (1944-2020) 106;3918

52. Ronald K. Getoor (1929-2017) 106;1850

53. Richard V. Kadison (1925-2018) 105;3633

54. Elliott Ward Cheney, Jr. (1929-2016) 105;1642

55. Ernest A. Michael (1925-2013) 102;2845

56. Vera Pless (1931-2020) 101;2248

57. Victor L. Shapiro (1924-2013) 99;239

58. Herman Rubin (1926-2018) 99;498

59. Isadore M. Singer (1924-2021) 96;5215

60. John T. Tate (1925-2019) 95;5626

61. Maurice H. Heins (1915-2015) 93;401

62. Edward Odell (1947-2013) 92;1337

63. Bjarni Jonsson (1920-2016) 90;1632

64. Junichi Igusa (1924-2013) 89;1610

65. Mary Ellen Rudin (1924-2013) 87;791

66. Tom M. Apostol (1923-2016) 87;2886

67. Lee Lorch (1915-2014) 86;272

68. Clifford John Earle, Jr. (1935-2017) 84;1507

69. Walter Craig (1953-2019) 84;2084

70. Cathleen Synge Morawetz (1923-2017) 82;1295

71. Edward G. Effros (1935-2019) 82;3484
72. Richard Pollack (1935-2018) 81;1658
73. Heini Halberstam (1926-2014) 81;1086
74. Charles J. Stone (1936-2019) 79;2604
75. Joseph F. Traub (1932-2015) 78;1509
76. Colin J. Bushnell (1947-2021) 77;1624
77. Komaravolu Chandrasekharan (1920-2017) 75;778
78. Jacques Jean-Pierre Neveu (1932-2016) 74;1172
79. Robert R. Phelps (1926-2013) 71;2519
80. Pierre E. Conner, Jr. (1932-2018) 71;1118
81. Lloyd Stowell Shapley (1923-2016) 70;4107
82. Elwyn Berlekamp (1940-2019) 70;1550
83. Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726
84. Samuel Gitler (1933-2014) 67;560
85. William A. Veech (1938-2016) 66;1891
86. Rudolf Kalman (1930-2016) 66;1826
87. Jane Cronin Scanlon (1922-2018) 66;206
88. Alan Baker (1939-2018) 65;1596
89. Edward Nelson (1932-2014) 64;2035
90. Albert Nijenhuis (1926-2015) 61;1054
91. Joyce R. McLaughlin (1939-2017) 61;914
92. Walter Noll (1925-2017) 59;1601
93. Edward Fadell (1926-2018) 59;1065
94. EdgarH Brown (1926-2021) 58;586
95. Isaac Namioka (1928-2019) 57;1183

96. Tim D. Cochran (1955-2014) 57;1265

97. Donald L. Burkholder (1927-2013) 57;2165

98. Steven M. Zucker (1949-2019) 55;756

99. Robert T. Seeley (1932-2016) 53;1510

100. Oscar E. Lanford, III (1940-2013) 50;734

101. Robert M. Miura (1938-2018) 49;1370

102. Richard L. Bishop (1931-2019) 49;1173

103. John Roe (1959-2018) 48;2116

104. Aldridge Bousfield (1941-2020) 48;2563

105. Clarence W. Wilkerson, Jr. (1944-2019) 47;749

106. Roy Adler (1931-2016) 47;1231

107. Richard D. Schafer (1918-2014) 46;712

108. Ray Kunze (1928-2014) 46;452

109. David Goss (1952-2017) 46;882

110. Harold M. Edwards (1936-2020) 46;542

111. David Cantor (1935-2012) 45;451

112. Louis Howard (1929-2015) 42;275

113. Paul Chernoff (1942-2017) 42;658

114. Robert Ellis (1926-2013) 41;978

115. Lynne H. Walling (1958-2021) 40;101

116. Maurice Sion (1927-2018) 39;525

117. Stephen A. Mitchell (1951-2017) 39;366

118. Aderemi Oluyomi Kuku (1941-2022) 39;121

119. Paul J. Sally, Jr. (1933-2013) 37;281

120. John C. Moore (1923-2016) 37;1254

121. Steve Armentrout (1930-2020) 37;145

122. Howard Osborn (1928-2019) 36;52

123. William Bade (1924-2012) 35;426

124. Henry Wente (1936-2020) 34;526

125. Kenneth I. Gross (1938-2017) 34;181

126. Charles C. Sims (1937-2017) 33;503

127. John Hempel (1935-2022) 31;1211

128. Donald Babbitt (1936-2020) 31;161

129. Kenneth I. Appel (1932-2013) 31;873

130. Lesley M. Sibner (1934-2013) 29;157

131. John F. Nash, Jr. (1928-2015) 29;3185

132. Solomon Feferman (1928-2016) 29;1146

133. John H. Walter (1927-2021) 27;214

134. Alphonse T. Vasquez (1938-2021) 27;133

135. J. Michael Boardman (1938-2021) 26;781

136. Samuel M. Rankin, III (1945-2020) 25;145

137. Thomas Nevins (1972-2020) 24;173

138. Myles Tierney (1937-2017) 23;428

139. Robert J. Blattner (1931-2015) 23;336

140. James M. Kister (1930-2018) 19;142

141. Arthur Herbert Copeland (1926-2019) 19;41

142. Lynn Arthur Steen (1941-2015) 18;341

143. Arthur P. Mattuck (1930-2021) 17;152

144. Carole B. Lacampagne (1933-2021) 11;12

145. Lida K. Barrett (1927-2021) 5;2

Appendix III: Ranking the AMS Fellows who died before Aug. 2022 According to Decreasing Number of Citations

1. Elias M. Stein (1931-2018) 237;27492

2. Louis Nirenberg (1925-2020) 175;17621

3. Lars Hormander (1931-2012) 159;15121

4. Sir Michael Atiyah (1929-2019) 269;12281

5. Andrew J. Majda (1949-2021) 323;11987

6. Jonathan Michael Borwein (1951-2016) 453;9810

7. Guido Weiss (1928-2021) 114;8722

8. Andrei V. Zelevinsky (1953-2013) 113;8482

9. Ronald Graham (1935-2020) 363;7500

10. Hans Weinberger (1928-2017) 115;6664

11. Anatole Katok (1944-2018) 122;6030

12. Jim Douglas, Jr. (1927-2016) 180;5937

13. John T. Tate (1925-2019) 95;5626

14. Isadore M. Singer (1924-2021) 96;5215

15. Richard Askey (1933-2019) 163;4802

16. Harry Kesten (1931-2016) 193;4772

17. Felix E. Browder (1927-2016) 200;4743

18. Robert Strichartz (1943-2021) 189;4633

19. Peter Duren (1935-2020) 126;4490

20. Bertram Kostant (1928-2017) 114;4367

21. Lloyd Stowell Shapley (1923-2016) 70;4107

22. Joel A. Smoller (1935-2017) 181;4096

23. George R. Sell (1937-2015) 132;4068

24. Harold Widom (1932-2021) 167;4066

25. Vaughan F. R. Jones (1952-2020) 117;3924

26. Thomas M. Liggett (1944-2020) 106;3918

27. Branko Grunbaum (1929-2018) 271;3814

28. Ronald G. Douglas (1938-2018) 168;3732

29. Manfredo P. doCarmo (1928-2018) 110;3685

30. Joseph B. Keller (1923-2016) 321;3655

31. Richard V. Kadison (1925-2018) 105;3633

32. Paul Fife (1930-2014) 118;3509

33. Edward G. Effros (1935-2019) 82;3484

34. John F. Nash, Jr. (1928-2015) 29;3185

35. Robin Thomas (1962-2020) 122;2898

36. Tom M. Apostol (1923-2016) 87;2886

37. Eugene B. Dynkin (1924-2014) 222;2851

38. Ernest A. Michael (1925-2013) 102;2845

39. Richard M. Dudley (1938-2020) 138;2776

40. Jan C. Willems (1939-2013) 186;2677

41. Jean-Pierre Kahane (1926-2017) 288;2639

42. Charles J. Stone (1936-2019) 79;2604

43. Aldridge Bousfield (1941-2020) 48;2563

44. Robert R. Phelps (1926-2013) 71;2519

45. Veeravalli S. Varadarajan (1937-2019) 149;2336

46. Vera Pless (1931-2020) 101;2248

47. Donald L. Burkholder (1927-2013) 57;2165

48. Lawrence Shepp (1936-2013) 175;2137

49. Murray Rosenblatt (1926-2019) 178;2128

50. John Roe (1959-2018) 48;2116

51. Andras Hajnal (1931-2016) 164;2116

52. Shreeram Abhyankar (1930-2012) 190;2111

53. Walter Craig (1953-2019) 84;2084

54. Edward Nelson (1932-2014) 64;2035

55. Gilbert Baumslag (1933-2014) 166;1937

56. William A. Veech (1938-2016) 66;1891

57. Peter M. Gruber (1941-2017) 107;1867

58. Nikolai Chernov (1956-2014) 111;1859

59. Ronald K. Getoor (1929-2017) 106;1850

60. Rudolf Kalman (1930-2016) 66;1826

61. Frederick R. Cohen (1946-2022) 136;1781

62. W. Wistar Comfort (1933-2016) 153;1746

63. Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726

64. Georgia Benkart (1949-2022) 133;1692

65. Richard Pollack (1935-2018) 81;1658

66. Elliott Ward Cheney, Jr. (1929-2016) 105;1642

67. Bjarni Jonsson (1920-2016) 90;1632

68. Colin J. Bushnell (1947-2021) 77;1624

69. Junichi Igusa (1924-2013) 89;1610

70. Walter Noll (1925-2017) 59;1601

71. Alan Baker (1939-2018) 65;1596

72. Elwyn Berlekamp (1940-2019) 70;1550

73. Robert T. Seeley (1932-2016) 53;1510

74. Joseph F. Traub (1932-2015) 78;1509

75. Clifford John Earle, Jr. (1935-2017) 84;1507

76. Solomon Golomb (1932-2016) 146;1497

77. Robert M. Miura (1938-2018) 49;1370

78. Edward Odell (1947-2013) 92;1337

79. Vladimir F. Demyanov (1938-2014) 183;1309

80. Cathleen Synge Morawetz (1923-2017) 82;1295

81. Mark Mahowald (1931-2013) 164;1281

82. Tim D. Cochran (1955-2014) 57;1265

83. John C. Moore (1923-2016) 37;1254

84. Roy Adler (1931-2016) 47;1231

85. John Hempel (1935-2022) 31;1211

86. Isaac Namioka (1928-2019) 57;1183

87. Richard L. Bishop (1931-2019) 49;1173

88. Jacques Jean-Pierre Neveu (1932-2016) 74;1172

89. Solomon Feferman (1928-2016) 29;1146

90. Sibe Mardesic (1927-2016) 159;1130

91. Pierre E. Conner, jr. (1932-2018) 71;1118

92. Wilhelmus Luxemburg (1929-2018) 111;1107

93. Heini Halberstam (1926-2014) 81;1086

94. Edward Fadell (1926-2018) 59;1065

95. Albert Nijenhuis (1926-2015) 61;1054

96. Robert Ellis (1926-2013) 41;978

97. Joyce R. McLaughlin (1939-2017) 61;914

98. David Goss (1952-2017) 46;882

99. Kenneth I. Appel (1932-2013) 31;873

100. Mary Ellen Rudin (1924-2013) 87;791

101. J. Michael Boardman (1938-2021) 26;781

102. Komaravolu Chandrasekharan (1920-2017) 75;778

103. Steven M. Zucker (1949-2019) 55;756

104. Clarence W. Wilkerson, Jr. (1944-2019) 47;749

105. Oscar E. Lanford, III (1940-2013) 50;734

106. Richard D. Schafer (1918-2014) 46;712

107. Harvey Cohn (1923-2014) 118;664

108. Paul Chernoff (1942-2017) 42;658

109. Edgar H. Brown (1926-2021) 58;586

110. Samuel Gitler (1933-2014) 67;560

111. Harold M. Edwards (1936-2020) 46;542

112. Henry Wente (1936-2020) 34;526

113. Maurice Sion (1927-2018) 39;525

114. Charles C. Sims (1937-2017) 33;503

115. Herman Rubin (1926-2018) 99;498

116. Ray Kunze (1928-2014) 46;452

117. David Cantor (1935-2012) 45;451

118. Myles Tierney (1937-2017) 23;428

119. William Bade (1924-2012) 35;426

120. Maurice H. Heins (1915-2015) 93;401

121. Donald A. S. Fraser (1925-2020) 182;400

122. Stephen A. Mitchell (1951-2017) 39;366

123. Lynn Arthur Steen (1941-2015) 18;341

124. Robert J. Blattner (1931-2015) 23;336

125. Paul J. Sally, Jr. (1933-2013) 37;281

126. Louis Howard (1929-2015) 42;275

127. Lee Lorch (1915-2014) 86;272

128. Victor L. Shapiro (1924-2013) 99;239

129. John H. Walter (1927-2021) 27;214

130. Jane Cronin Scanlon (1922-2018) 66;206

131. Kenneth I. Gross (1938-2017) 34;181

132. Thomas Nevins (1972-2020) 24;173

133. Donald Babbitt (1936-2020) 31;161

134. Lesley M. Sibner (1934-2013) 29;157

135. Arthur P. Mattuck (1930-2021) 17;152

136. Samuel M. Rankin, III (1945-2020) 25;145

137. Steve Armentrout (1930-2020) 37;145

138. James M. Kister (1930-2018) 19;142

139. Alphonse T. Vasquez (1938-2021) 27;133

140. Aderemi Oluyomi Kuku (1941-2022) 39;121

141. Lynne H. Walling (1958-2021) 40;101

142. Howard Osborn (1928-2019) 36;52

143. Arthur Herbert Copeland (1926-2019) 19;41

144. Carole B. Lacampagne (1933-2021) 11;12

145. Lida K. Barrett (1927-2021) 5;2

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Corresponding author: Doron Zeilberger, Department of Mathematics, Rutgers University (New Brunswick), Hill Center-Busch Campus, 110 Frelinghuysen Rd., Piscataway, NJ 08854-8019, USA. Email: `DoronZeil] at gmail dot com` .

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