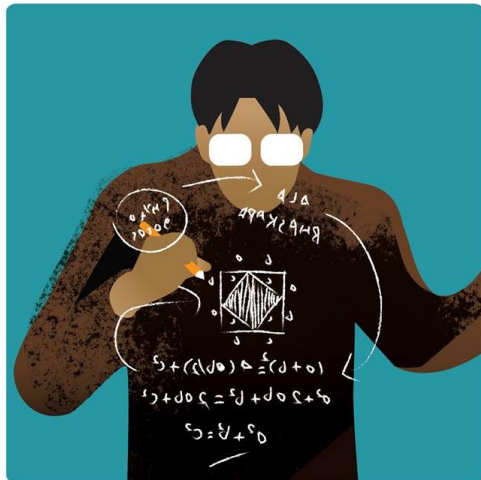


Mengapa Saya Memilih Menjadi Matematikawan

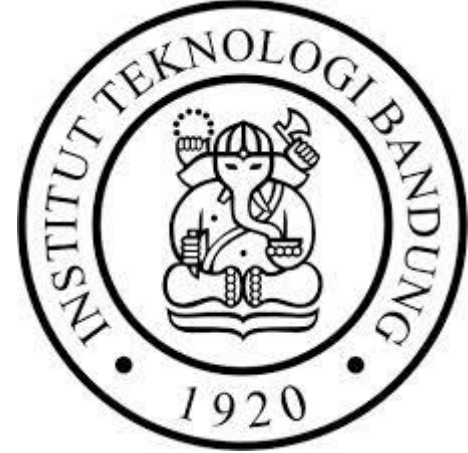


Hendra Gunawan

6 September 2018

Mengapa Tidak?

- Sejak kecil, saya **suka** matematika.
- Nilai saya dalam matematika selalu **bagus**.
- Saya **ingin** mempelajarinya lebih jauh.

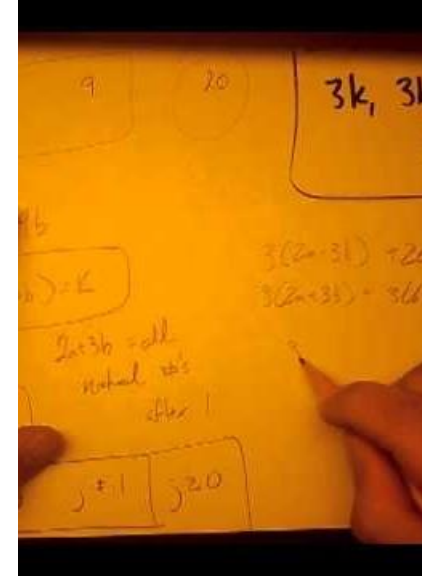


Kilas Balik (1)

- Menjelang lulus SMA, saya mendapat kesempatan untuk mendaftar ke MA-ITB melalui **Program Perintis II**. Saya mendaftar dan akhirnya diterima.
- Pada tahun **1982**, ITB mulai menjuruskan mahasiswa sejak tahun pertama.
[Sebelumnya, mahasiswa memilih jurusan pada tahun kedua, sebagaimana berlaku kembali sekarang.]

Kilas Balik (2)

- Setelah lulus dari program S1 MA-ITB, saya memutuskan untuk **menjadi dosen di ITB**. Saya melamar dan langsung diterima.
- Saya memutuskan menjadi dosen karena ketika mahasiswa saya cukup sering memberi 'responsi' dan saya merasa senang bisa berbagi ilmu.
- Ketika itu, saya belum terpikir bahwa saya akan **menjadi matematikawan**.



Kilas Balik (3)

- Tak lama setelah saya diterima sebagai dosen, pada tahun 1988 saya berangkat ke Australia untuk studi lanjut di **UNSW**.
- Di UNSW, saya mulai berkenalan dengan dunia penelitian (dalam bidang matematika).
- Berinteraksi dengan pembimbing dan dosen serta dosen tamu di UNSW, saya semakin memahami dunia matematika dan terinspirasi untuk menjadi **matematikawan**.



zürich
m94



Kilas Balik (4)

- Setelah meraih gelar **doktor** pada tahun 1992, saya masih melanjutkan penelitian dalam matematika, walau waktu saya cukup tersita dengan banyaknya perkuliahan yang saya ampu.
- Pada tahun 1994, saya mendapat Travel Grant dari **IMU** untuk menghadiri **ICM** di Zurich, Swiss; dan mengikuti kuliah dari para peraih **Fields Medal** 1994. [Pada event ICM yang digelar 4 tahun sekali, peraih Fields Medal diumumkan.]
- Saya juga mendapat Travel Grant dan menghadiri ICM 1998 di Berlin.

Fields Medal (1)



Material	: 14KT Gold
Diameter	: 63.5 mm
Finish	: Sandblasted, Engraved, Gold Plated & Lacquered
Unit Price	: ≈5,500 CAD

Sumber: IMU

Fields Medal (2)

The Fields Medal is awarded by **International Mathematical Union** to two, three, or four mathematicians under 40 years of age, every four years at the **International Congress of Mathematicians**, to recognize outstanding mathematical achievement for existing work and for the promise of future achievement.

The Fields Medal is regarded as one of the highest honors a mathematician can receive, and has been described as the mathematician's “**Nobel Prize**”.

Sumber: IMU

Fields Medal (3)

2018

Caucher Birkar

Alessio Figalli

Peter Scholze

Akshay Venkatesh

2014

Artur Avila

Manjul Bhargava

Martin Hairer

Maryam Mirzakhani

2010

Elon Lindenstrauss

Ngô Bào Châu

Stanislav Smirnov

Cédric Villani

2006

Andrei Okounkov

Grigori Perelman*

Terence Tao

Wendelin Werner

My Dreams

- Saya tidak bermimpi meraih **Fields Medal**. Prestasi saya biasa-biasa saja, dan usia saya pun sudah 'lewat'.
- Mimpi saya adalah: matematika semakin berkembang di Indonesia dan, pada suatu saat nanti, ada peraih Fields Medal dari **Indonesia**.

MATEMATIKA BUKAN BARU LAHIR KEMARIN



±4000 tahun y.l. **bangsa Babilonia** telah menggunakan geometri sebagai basis perhitungan astronomis.

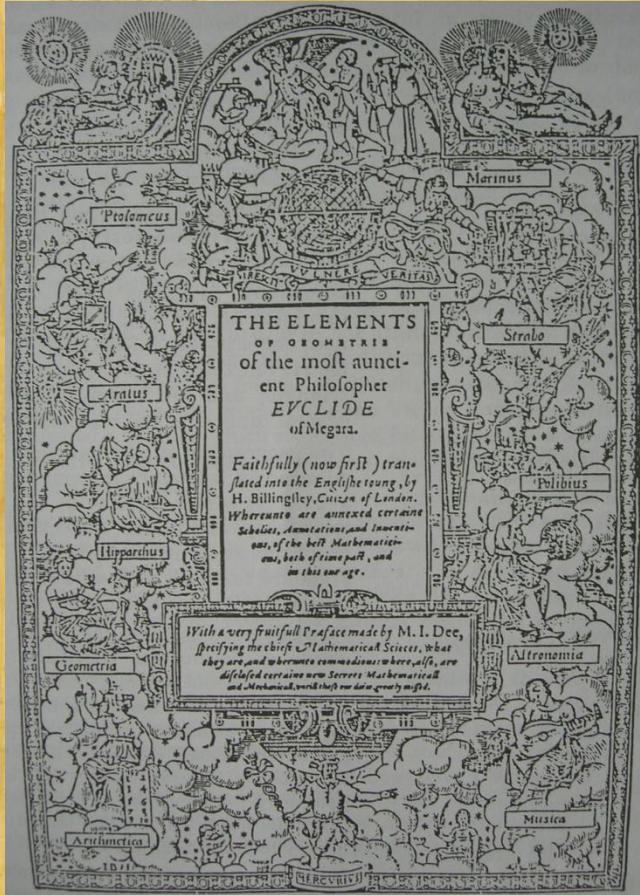
Bangsa Mesir Kuno telah mengenal Tripel Pythagoras dan menggunakannya untuk membuat sudut siku.



±3000 tahun y.l. **bangsa Cina** telah mengenal sifat-sifat segitiga siku.

±2500 tahun y.l. **bangsa Yunani Kuno** mengembangkan matematika sebagai ilmu.

KARYA TULIS MATEMATIKA ADA SEJAK LAMA



Thales (625-547 SM) membuktikan dalil tentang segitiga siku dengan alas diameter lingkaran.

Pythagoras (580-496 SM) membuktikan dalil tentang ketiga sisi segitiga siku: $a^2 + b^2 = c^2$.

Euclid (330-275 SM) menulis lima belas jilid buku geometri *Elements*.

Archimedes (287-212 SM) menulis buku *The Method*.

Hipparcus (147-127 SM) menemukan trigonometri.

A Quote by Reuben Hersh (in “Experiencing Mathematics”)

Like physics or astronomy, mathematics constitutes a body of established facts, achieved by a reliable method, verified by practice, and agreed on by a consensus of qualified experts.

But its subject matter is not visible or ponderable, not empirical; ***its subject matter is ideas, concepts, which exist only in the shared consciousness of human beings***. Thus it is both a science and a “humanity”. It is about *mental objects with reproducible properties*.

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Silsilah Matematikawan
[www.genealogy.ams.org]

12/16/2014

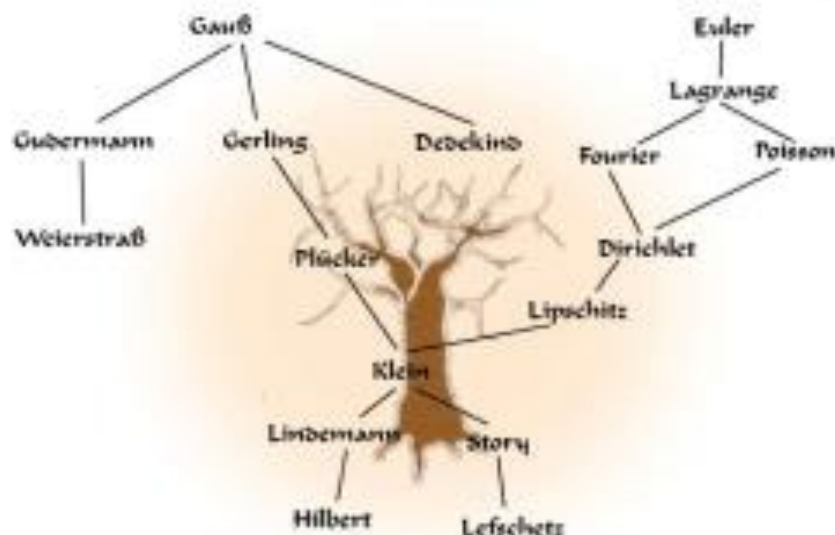
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Fargo, North Dakota 58108-6050



Mathematics Genealogy Project

Hendra Gunawan

[MathSciNet](#)

Ph.D. University of New South Wales 1992 

Dissertation: *Maximal Functions and Harmonic Analysis*

Mathematics Subject Classification: 42—Fourier analysis

Advisor: [Michael G. Cowling](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Eridani Campanato	Institut Teknologi Bandung	2005	
Sumenang Gazali	Institut Teknologi Bandung	2012	
Endang Ruswaman	Padjadjaran University	2010	
Idha Sihwaningrum	Institut Teknologi Bandung	2010	

According to our current on-line database, Hendra Gunawan has 4 [students](#) and 4 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 103120 for the advisor ID.

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Michael George Cowling

[MathSciNet](#)

 Ph.D. [Flinders University of South Australia](#) 1974

 Dissertation: *Spaces $A_{p,q}$ and L^p - L^q Fourier Multipliers*

 Advisor: [Garth Jan Gaudry](#)

Students:

 Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Abdul A. Ahofari	University of New South Wales	2005	
Brian Borofaeff	University of New South Wales	1995	
Hendra Gunawan	University of New South Wales	1992	4
Rupert McCauley	University of New South Wales	2007	
Wfried Raus	University of New South Wales	1997	
Keith Rogers	University of New South Wales	2004	
Robert Tannart	University of New South Wales	2008	
Benjamin Warhurst	University of New South Wales	2005	

According to our current on-line database, Michael Cowling has 8 [students](#) and 12 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 75710 for the advisor ID.

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Garth Ian Gaudry

[MathSciNet](#)

 Ph.D. [Australian National University](#) 1965

 Dissertation: *Quasimeasures and Multiplier Problems*

Mathematics Subject Classification: 43—Abstract harmonic analysis

 Advisor: [Robert Edmund Edwards](#)

Student:

Name	School	Year	Descendants
Michael Cowling	Flinders University of South Australia	1974	12

According to our current on-line database, Garth Gaudry has 1 [student](#) and 13 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 57370 for the advisor ID.

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 Fargo, North Dakota 58108-6050



Mathematics Genealogy Project

Robert Edmund Edwards

[MathSciNet](#)

Ph.D. [University of London](#) 1951



Dissertation: Theory of Normed Rings, and Translations in Function Spaces

Advisor 1: [Jacob Lionel Bakst Gerner](#)

Students:

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Name	School	Year	Descendants
Lynette Bloom	Australian National University	1979	
Walker Bloom	Australian National University	1974	
Anthony Dooley	Australian National University	1977	11
Graham Elton	Australian National University	1968	1
Desmond Easdale-Sander	Australian National University	1963	2
Garth Gaudry	Australian National University	1965	13
John Price	Australian National University	1970	2
Jeffery Sanders	Australian National University	1975	

According to our current on-line database, Robert Edwards has 8 [students](#) and 37 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 42237 for the advisor ID.

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Jacob Lionel Bakst Cooper

[Biography](#) [MathSciNet](#)

D.Phil. [University of Oxford](#) 1940



Dissertation: *Theory And Application Of Fourier Integrals*

Advisor: [Edward Charles Titchmarsh](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Robert Edwards	University of London	1951	37
Carlos Finau	University of London	1978	1
Ron Latham	University of London	1980	
James Stewart	University of Toronto	1957	2

According to our current on-line database, Jacob Cooper has 4 [students](#) and 44 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 18575 for the advisor ID.

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Edward Charles Titchmarsh

[Electronic MathSciNet](#)

 M.A. [University of Oxford](#)


Dissertation:

 Advisor: [G. H. \(Godfrey Harold\) Hardy](#)

Students:

 Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Frederick Atkinson	University of Oxford	1939	40
Peter Buzda	University of Oxford	1961	1
Nalini Chakraverty	Calcutta University	1961	
Richard Cooke		1928	8
Jacob Cooper	University of Oxford	1940	44
William Evans	University of Oxford	1966	11
W. Norrie Everitt	University of Oxford	1966	34
Andrew Guinand	University of Oxford		4
P. Heywood	University of Oxford	1952	
Moray Macphail	University of Oxford	1936	2
John McLeod	University of Oxford	1959	53
Szu-Hoa Min (蔣國治)	University of Oxford	1947	37
Raj Prasad	Université de Paris	1932	25
Douglas Sears			25
S. M. Shah	University of London	1942	90

According to our current on-line database, Edward Titchmarsh has 15 [students](#)
 and 389 [descendants](#).

We welcome any additional information.

G. H. (Godfrey Harold) Hardy

[Biography](#) [MathSciNet](#)

M.A. [University of Cambridge](#) 1903



Dissertation:

Adviser 1: [Augustus Edward Hough Love](#)

Adviser 2: [Edmund Taylor Whittaker](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
M. Ahmed	University of Edinburgh	1931	
A. Bassett	University of Oxford	1936	
Lancelot Boscawen	University of Oxford	1930	93
Mary Cartwright	University of Oxford	1930	139
Sydney Chapman	University of Cambridge	1911	104
Irving Good	University of Cambridge	1941	3
Mehmed Haslam-Jones	University of Oxford	1928	66
E. Infield	University of Oxford	1929	12
Frank Morley	University of Oxford	1923	
A. Cyril Offord	University of Cambridge	1936	34
P. Owen	University of Oxford	1933	
Edgar Phillips	University of Oxford	1933	
Harry Pitt	University of Cambridge	1938	7
R. Probst	University of Oxford	1934	
Richard Rado	University of Cambridge	1935	288
Srinivasa Ramanujan			
Robert Rankin	University of Cambridge	1940	11
K. Ananda Rau	University of Cambridge	1919	229
Frank Smithies	University of Cambridge	1937	894
Donald Snopce	University of Cambridge	1939	807
P. L. Srivastava	University of Oxford	1927	
Edward Titchmarsh	University of Oxford		389
T. Vijayaraghavan	University of Oxford	1929	27
Edward Wright	University of Oxford		1





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Edmund Taylor Whittaker

[Biography](#)

M.A. [University of Cambridge](#) 1895



Dissertation:

Advisor 1: [Andrew Russell Forsyth](#)

Advisor 2: [George Howard Darwin](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Alexander Aitken	University of Edinburgh	1925	917
Arthur Eddington	University of Cambridge	1905	364
Philip Gormley	University of Edinburgh	1933	
G. H. Hardy	University of Cambridge	1903	3251
William Hodge	University of Edinburgh	1923	620
Sir James Jeans	University of Cambridge		985
George McVittie	University of Cambridge		28
Ramaswamy	University of Cambridge and		55
Vaidyanathaswamy	University of Edinburgh		
Arthur Walker	University of Edinburgh	1933	35
George Watson	University of Cambridge	1907	

According to our current on-line database, Edmund Whittaker has 10 [students](#)
and 6197 [descendants](#).

We welcome any additional information.



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Andrew Russell Forsyth

[Biography](#)

Ph.D. [University of Cambridge](#) 1881



Dissertation:

Advisor: [Arthur Cayley](#)

Student:

Name	School	Year	Descendants
Edmund Whittaker	University of Cambridge	1895	6197

According to our current on-line database, Andrew Forsyth has 1 [student](#) and 6198 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 17829 for the advisor ID.



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Arthur Cayley

[Biography](#)

Ph.D. / Ph.D. / Dr Sc. [Universiteit Leiden](#) and [University College Dublin](#) and

[University of Oxford](#) 1864/1865/1875



Dissertation: *(First two degrees were Law degrees)*

Advisor: [William Hopkins](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Henry Baker	University of Cambridge		536
Andrew Forsyth	University of Cambridge	1881	6198
Charlotte Scott	University of Cambridge	1885	7

According to our current on-line database, Arthur Cayley has 3 [students](#) and
6680 [descendants](#).

We welcome any additional information.

My Family Tree

H.G. ← M. Cowling ← I. Gaudry ← R. Edwards
← J. Cooper ← E. Titchmarsh ← G. Hardy ←
E. Whittaker ← A. Forsyth ← A. Cayley ←
W. Hopkins ← A. Sedgwick ← T. Jones ←
T. Postlethwaite ← S. Whisson ← W. Taylor
← R. Smith ← R. Cotes ← ??



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Roger Cotes

[Biography](#)

M.A. [University of Cambridge](#) 1706



Dissertation:

Mathematics Subject Classification: 00—General

Advisor: [Isaac Newton](#)

Student:

Name	School	Year	Descendants
Robert Smith	University of Cambridge	1715	12094

According to our current on-line database, Roger Cotes has 1 [student](#) and 12095 [descendants](#).

We welcome any additional information.



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Isaac Newton

[Biography](#) [MathSciNet](#)

M.A. [University of Cambridge](#) 1668



Dissertation: Pulleyn was his official tutor, whereas Barrows was NOT a formal advisor but probably had the greatest influence on the young Newton

Mathematics Subject Classification: 00—General

Advisor 1: [Isaac Barrow](#)

Advisor 2: [Benjamin Pulleyn](#)

Students:

Click [here](#) to see the students listed in chronological order.

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Name	School	Year	Descendants
Roger Cotes	University of Cambridge	1706	12095
William Whiston	University of Cambridge	1695	



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Isaac Barrow

[Biography](#)

M.A. [University of Cambridge](#) 1652



Dissertation: Barrow studied classics and theology mentored by James Duport who was professor of Greek. He learned mathematics in parallel to that and by working after his graduation with Gilles Personne de Roberval in Paris and with Vincenzo Viviani in Florence.

Mathematics Subject Classification: 00—General

Advisor 1: [Vincenzo Viviani](#)

Advisor 2: [Gilles Personne de Roberval](#)

Student:

Name	School	Year	Descendants
Isaac Newton	University of Cambridge	1668	12097

According to our current on-line database, Isaac Barrow has 1 [student](#) and 12098 [descendants](#).

We welcome any additional information.



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Vincenzo Viviani

[Biography](#) [MathSciNet](#)

Università di Pisa 1642



Dissertation:

Mathematics Subject Classification: 00—General

Advisor: [Galileo Galilei](#)

Advisor 2: [Evangelista Torricelli](#)

Student:

Name	School	Year	Descendants
Isaac Barrow	University of Cambridge	1652	12098

According to our current on-line database, Vincenzo Viviani has 1 [student](#) and 12099 [descendants](#).

We welcome any additional information.



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Galileo Galilei

[MathSciNet](#)

Università di Pisa 1585



Dissertation:

Mathematics Subject Classification: 00—General

Advisor 1: [Ostilio Ricci](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Benedetto Castelli	Università di Padova	1610	12475
Mario Guiducci	Università di Padova		
Vincenzo Viviani	Università di Pisa	1642	12099

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According to our current on-line database, Galileo Galilei has 3 [students](#) and 12477 [descendants](#).

We welcome any additional information.

My Family Tree (continued)

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← J. Cooper ← E. Titchmarsh ← G. Hardy ←
E. Whittaker ← A. Forsyth ← A. Cayley ←
W. Hopkins ← A. Sedgwick ← T. Jones ←
T. Postlethwaite ← S. Whisson ← W. Taylor
← R. Smith ← R. Cotes ← Isaac Newton ←
← I. Barrow ← V. Viviani ← Galileo Galilei

Terima Kasih atas Perhatiannya.

