

# The Mathematical Ancestors of Robert Schaback



GEORG-AUGUST-UNIVERSITÄT  
GÖTTINGEN

## The Mathematical Ancestors of Robert Schaback

Edited by Ina Kersten  
on the occasion of the 65th birthday of Robert Schaback

### *Sources*

Mathematics Genealogy Project

<http://genealogy.math.uni-bielefeld.de/genealogy/>

Wikipedia, the free encyclopedia that anyone can edit

<http://en.wikipedia.org/wiki/>

<http://de.wikipedia.org/wiki/>

The MacTutor History of Mathematics archive

<http://www-groups.dcs.st-and.ac.uk/history/>

Deutsche Biographie (Onlinefassung)

<http://www.deutsche-biographie.de/>

Leibnitiana

<http://www.gwleibniz.com/>

<http://www.num.math.uni-goettingen.de/schaback/>

Faculty of Mathematics and Computer Science  
January 14, 2011



GEORG-AUGUST-UNIVERSITÄT  
GÖTTINGEN

Short vita of Robert Schaback:

- **1945** born in Einbeck
- **1955-1964** High school education in Gütersloh
- **1964-1969** Student of Mathematics and Physics in Münster, specializing in numerical analysis under supervision of **H. Werner**:  
**1968** Diplom, **1969** Dr.rer.nat., **1973** Habilitation
- **1969** Married to Dr. phil. Gudrun Pollert, 2 children,  
\*1975 and \*1982
- **1973** Associate professorship in Bonn
- **1976** Full professorship in Göttingen

**The mathematical ancestors of Robert Schaback, listed backwards:**

<b>Doctoral Advisor</b>	<b>Ph.D.</b>	<b>Place</b>
Helmut Werner (1931-1985)	1956	Göttingen
Erhard Heinz (*1924)	1951	Göttingen
Franz Rellich (1906-1955)	1929	Göttingen
Richard Courant (1888-1972)	1910	Göttingen
David Hilbert (1862-1943)	1885	Königsberg
C. L. Ferdinand v. Lindemann (1852-1939)	1873	Erlangen
Felix Klein (1849-1925)	1868	Bonn
Julius Plücker (1801-1868)	1823	Marburg
Christian Gerling (1788-1864)	1812	Göttingen
Carl Friedrich Gauß (1777-1855)	1799	Helmstedt
Johann Pfaff (1765-1825)	1786	Göttingen
Abraham Kästner (1719-1800)	1739	Leipzig
Christian Hausen (1693-1743)	1713	Wittenberg
Johann Wichmannshausen (1663-1727)	1685	Leipzig
Otto Mencke (1644-1707)	1665	Leipzig
Jakob Thomasius (1622-1684)	1643	Leipzig
Friedrich Leibnütz (1597-1652)	??	Leipzig

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## 1 In the 20th Century

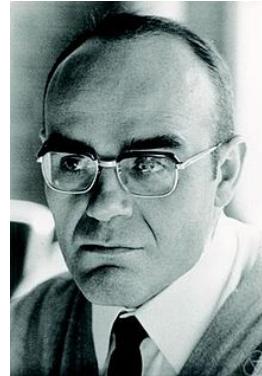
### 1.1 Helmut Werner 1956

Dissertation:

Das Problem von Douglas für Flächen konstanter mittlerer Krümmung

Ph.D. Göttingen 1956

Advisor 1: Erhard Heinz



### Curriculum Vitae

#### Personal data

Born: 22 March 1931 in Zwenkau near Leipzig  
 Died: 25 Nov 1985 in Bonn  
 Family: Married

#### Schooling

1949: Abitur, Petri Schule in Leipzig

#### Academic studies and training

1949-51: Student of Mathematics and Physics in Leipzig  
 1951-54: Student of Mathematics and Physics in Göttingen  
 1954: Staatsexamen in Göttingen  
 1956: Ph.D. in Göttingen  
 1962: Habilitation in Hamburg

#### Professional

1956-58: Working at non-university institutions in Göttingen, Karlsruhe and Frankfurt  
 1958-60: Ass. Professor at the University of Southern California in Los Angeles, meeting Lothar Collatz from Hamburg  
 1961-62: Position in Hamburg  
 1963-64: Visiting Professor at Stanford University  
 1964-80: Professor in Münster  
 Pioneer for computerized Braille translation  
 1980-85: Professor in Bonn  
 1982/83: DMV President

**Students:** Robert Schaback, total: 26

## 1.2 Erhard Heinz 1951



Dissertation:

Beiträge zur Störungstheorie der Spektralzerlegung

Ph.D. Göttingen 1951

Advisor: Franz Rellich

### Curriculum Vitae

#### Personal data

Born: 23 Feb 1924 in Bautzen

Family: Married

#### Academic studies and training

1942-44: Student in Dresden

1948-49: Student in Göttingen

1949: Staatsexamen in Göttingen

1951: Ph.D. in Göttingen

1954: Habilitation in Göttingen

#### Professional

1956-60: Associated Professor in Stanford

1960-62: Professor in Stanford

1962-66: Professor in München

1966-92: Professor in Göttingen

> 1992: Emeritus in Göttingen

1994: Georg-Cantor-Medaille der DMV

**Students:** Helmut Werner, Willi Jäger, total: 23

### 1.3 Franz Rellich 1929



Dissertation:

Verallgemeinerung der Riemannschen Integrationsmethode auf Differentialgleichungen  $n$ -ter Ordnung in zwei Veränderlichen

Ph.D. Göttingen 1929

Advisor: Richard Courant

### Curriculum Vitae

#### Personal data

Born: 14 Sept 1906 in Tramin (Tirol)  
Died: 25 Sept 1955 in Göttingen  
Family: Married to Brigitte Rellich,  
1929 his sister Camilla married to Bartel van der Waerden

#### Schooling

1916-24: Gymnasium in Graz

#### Academic studies and training

1924-29: Student in Graz and Göttingen  
1928-33: Assistant in Göttingen  
1929: Ph.D. in Göttingen  
1933: Habilitation in Göttingen

#### Professional

1933-34: Privatdozent in Göttingen  
1934-39: Privatdozent in Marburg  
1939-41: Extraordinary Professor in Marburg  
1941-45: Professor in Dresden  
1946-55: Professor in Göttingen  
1946-55: Director of the Mathematics Institute in Göttingen

**Students:** Erhard Heinz, Jürgen Moser, total: 6

## 1.4 Richard Courant 1910



### Dissertation:

Über die Anwendung des Dirichlet-  
schen Prinzipes auf die Probleme der  
konformen Abbildung

Ph.D. Göttingen 1910

Advisor: David Hilbert

## Curriculum Vitae

### Personal data

Born: 8 Jan 1888 in Lublinitz  
 Died: 27 Jan 1972 in New Rochelle, New York  
 Family: 1912 married to Nelly Neumann  
 1919 married to Nerina Runge (being divorced from Nelly)  
 4 Children: \*1920, \*1922, \*1924, \*1928

### Schooling

1897-1905: Gymnasium in Glatz and  
 König-Wilhelm Gymnasium in Breslau

### Academic studies and training

1905-10: Student in Breslau, Zürich and Göttingen  
 1908-10: Assistant of Hilbert in Göttingen  
 1910: Ph.D. in Göttingen  
 1912: Habilitation in Göttingen

### Professional

1912-14: Privatdozent in Göttingen  
 1919: Privatdozent in Göttingen  
 1920: Professor in Münster  
 1920-33: Professor in Göttingen  
 1922-33: Director of the Mathematics Institut in Göttingen  
 1934: Guest Professor in Cambridge UK  
 1934-72: Professor in New Rochelle, New York  
 1953-58: Director of the "Institute of Mathematical Sciences"  
 later named *Courant Institute* in New York

**Students:** Franz Rellich, Otto Neugebauer, total:  $\geq 30$



## 2 In the 19th Century

### 2.1 David Hilbert 1885



Dissertation:

Über invariante Eigenschaften  
specieller binärer Formen,  
insbesondere der Kugelfunctionen

Ph.D. Königsberg 1885

Advisor: C. L. Ferdinand Lindemann

### Curriculum Vitae

#### Personal data

Born: 23 Jan 1862 in Königsberg  
Died: 14 Feb 1943 in Göttingen  
Family: 1892 married to Käthe Jerosch (1864-1945), 1 son,  
Franz Hilbert (1893-1969)

#### Schooling

1872-79: Friedrichskolleg in Königsberg  
1879-80 Wilhelm Gymnasium in Königsberg

#### Academic studies and training

1880-85: Student of Mathematics in Königsberg  
1885: Ph.D. in Königsberg  
1886: Habilitation in Königsberg

#### Professional

1886-1892: Privatdozent in Königsberg  
1892-1893: Extraordinary Professor in Königsberg  
1893-1895: Professor of Mathematics in Königsberg  
1895-1930: Professor of Mathematics in Göttingen  
1897: Zahlbericht including the famous Satz 90  
1900: DMV president  
ICM 1900: Presentation of 23 unsolved problems in Paris

**Students:** Richard Courant, Felix Bernstein, Hermann Weyl, Erich Hecke,  
Erhard Schmidt, Hellmut Kneser, total:  $\geq 69$

## 2.2 Carl Louis Ferdinand Lindemann 1873



### Dissertation:

Über unendlich kleine Bewegungen  
und über Kraftsysteme bei allgemeiner  
projektivischer Maßbestimmung

Ph.D. Erlangen 1873

Advisor: Felix Klein

## Curriculum Vitae

### Personal data

Born: 12 April 1852 in Hannover  
Died: 6 March 1939 in München  
Family: 1887 married to Lisbeth Küssner, 2 children,  
Reinhard (1889-1911), Irmgard (1891-1971).

### Schooling

1870: Abitur in Schwerin

### Academic studies and training

1870-73: Student of Mathematics  
in Göttingen, Erlangen and München  
1873: Ph.D. in Erlangen  
1877: Habilitation in Würzburg

### Professional

1877-1879: Extraordinary Professor in Freiburg  
1879-1883: Professor in Freiburg  
1882: Proof that  $\pi$  is transcendental over  $\mathbb{Q}$   
1883-1893: Professor in Königsberg  
1893-1923: Professor in München

**Students:** David Hilbert, Hermann Minkowski, Wilhelm Kutta,  
total:  $\geq 48$

### 2.3 Felix Klein 1868



Dissertation:

Über die Transformation der allgemeinen Gleichung des zweiten Grades zwischen Linien-Koordinaten auf eine kanonische Form

Ph.D. Bonn 1868

Advisor 1: Julius Plücker

#### Curriculum Vitae

##### Personal data

Born: 25 April 1849 in Düsseldorf ( $5^2/2^2/43^2$ )  
 Died: 22 June 1925 in Göttingen  
 Family: 1875 married to Anna Hegel (1859-1927), 4 children,  
 3 daughters and 1 son.

##### Schooling

1857-65: High school education in Düsseldorf

##### Academic studies and training

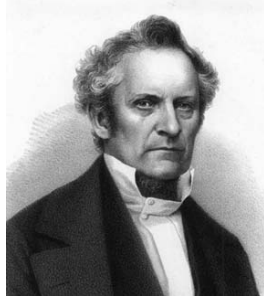
1865-1866: Student of Mathematics and Physics in Bonn  
 1866-1868: Laboratory assistant to Plücker in Bonn  
 1868: Ph.D. in Bonn  
 1871: Habilitation in Göttingen

##### Professional

1871-1872: Privatdozent in Göttingen  
 1872: Famous Erlanger Programm  
 1872-1875: Professor in Erlangen  
 1875-1880: Professor at TH München  
 1880-1886: Professor in Leipzig  
 1886-1913: Professor in Göttingen  
 1892: Founding "Mathematische Gesellschaft" with H. Weber  
 1897: Speaker in Zürich at the first ICM:  
 Zur Frage des höheren mathematischen Unterrichtes.  
 1897: DMV President (as well as in 1903 and 1907)

**Students:** Ferdinand Lindemann, Philipp Furtwängler, total:  $\geq 50$

## 2.4 Julius Plücker 1823



### Dissertation:

Generalem analyeseos applicationem ad ea quae geometriae altioris et mechanicae basis et fundamenta sunt e serie Tayloria deducit

Ph.D. Marburg 1823

Advisor: Christian Gerling

## Curriculum Vitae

### Personal data

Born: 16 June 1801 in Elberfeld

Died: 22 May 1868 in Bonn

Family: 1837 married to Antonie Altstätten (1813-80), 1 child, Albert (1838-1901)

### Schooling

1816-19: High school education in Düsseldorf

### Academic studies and training

1820-24: Student in Bonn, Heidelberg, Berlin and Paris

1823: Ph.D. in Marburg (external)

1825: Habilitation in Bonn

### Professional

1825-28: Privatdozent in Bonn

1829-33: Extraordinary Professor in Bonn

1833-34: Extraordinary Professor in Berlin

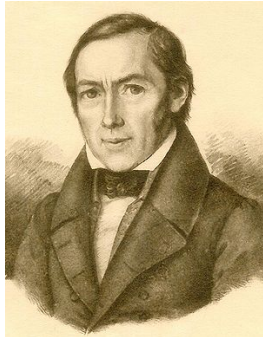
1834-36: Professor in Halle

1836-47: Professor of Mathematics in Bonn

1847-68: Professor of Physics in Bonn

**Student:** Felix Klein

## 2.5 Christian Ludwig Gerling 1812



Dissertation:

Methodi projectionis orthographicae  
usum ad calculos parallacticos faci-  
litandos explicavit simulque eclipsin  
solarem die

Ph.D. Göttingen 1812

Advisor: Carl Friedrich Gauß

### Curriculum Vitae

#### Personal data

Born: 10 July 1788 in Hamburg  
Died: 15 Jan 1864 in Marburg  
Family: 1814 married to Christiane Suabedissen, 4 children,  
1 son and 3 daughters.

#### Schooling

High school education: Johanneum in Hamburg

#### Academic studies and training

1809-10: Student of Theology in Helmstedt  
and attending a lecture in Mathematics by Pfaff  
1810-12: Student of Mathematics and Physics in Göttingen  
1812: Ph.D. in Göttingen

#### Professional

1812-17: Professor at the Lyzeum in Kassel  
1817-64: Professor of Astronomy and Mathematics in Marburg

**Student:** Julius Plücker

## 3 In the 18th Century

### 3.1 Carl Friedrich Gauß 1799



#### Dissertation:

Demonstratio nova theorematis omnem functionem algebraicam rationalem integram unius variabilis in factores reales primi vel secundi gradus resolvi posse

Ph.D. Helmstedt 1799

Advisor: Johann Friedrich Pfaff

#### Curriculum Vitae

##### Personal data

Born: 30 April 1777 in Braunschweig  
 Died: 23 Feb 1855 in Göttingen  
 Family: 1805 married to Johanna Ostoff (1780-1809), 3 children  
 \*1806, \*1808, \*1809 †1810,  
 1810 married to Wilhelmine Waldeck (1788-1831), 3 children  
 \*1811, \*1813, \*1816.

##### Schooling

1788-92: High school education in Braunschweig

##### Academic studies and training

1792-95: Student at the Braunschweig Collegium Carolinum  
 1795-98: Student at Göttingen University  
 1798: Completion of the famous *Disquisitiones Arithmeticae*, published 1801  
 1799: Ph.D. at Helmstedt University, then living in Braunschweig supported by the Duke of Braunschweig †1805

##### Professional

1807-1855: Professor and Director of the Göttingen Observatory

**Students:** Christian Gerling, Bernhard Riemann, total: 8

### 3.2 Johann Friedrich Pfaff 1786



Dissertation:

Programma inaugurale in quo peculiarem differentialia investigandi rationem ex theoria functionum deducit

Ph.D. Göttingen 1786

Advisor: Abraham Kästner

### Curriculum Vitae

#### Personal data

Born: 22 Dec 1765 in Stuttgart  
 Died: 21 April 1825 in Halle  
 Family: 1803 married to Caroline Brand, 2 children  
 Father: Burkhard Pfaff, chief financial counsellor of Württemberg  
 Brother: Johann Wilhelm Pfaff \*1774,  
 Professor of Mathematics in Würzburg and Erlangen

#### Schooling

1774-85: Hohe Karlsschule in Stuttgart  
 (to train sons of government officials of Württemberg)  
 1785 Completing studies in Law at Hohe Karlsschule

#### Academic studies and training

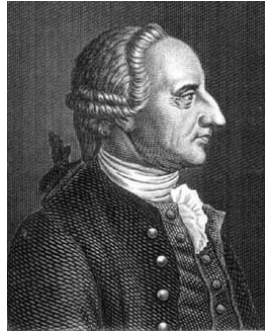
1785-86: Student of Mathematics and Physics in Göttingen  
 1786 Ph.D. in Göttingen  
 1787-88: Student of Astronomy in Berlin

#### Professional

1788-1810: Professor in Helmstedt  
 1810-1825: Professor in Halle  
 1812-1825: Director of the University Observatory

**Students:** Carl Friedrich Gauß, total: 3

### 3.3 Abraham Kästner 1739



Dissertation:

Theoria radicum in aequationibus

Ph.D. Leipzig 1739

Advisor: Christian August Hausen

#### Curriculum Vitae

##### Personal data

Born: 27 Sept 1719 in Leipzig  
 Died: 20 June 1800 in Göttingen  
 Family: 1757 married to Anna Rosina Baumann (†1758),  
 later married to a widow, 1 daughter

**Schooling:** Private teaching by his father and his uncle

##### Academic studies and training

From 1731: Student of Law, Mathematics, Physics and Philosophy  
 1735 Baccalaureus, 1737 Magister Artium in Leipzig,  
 1739 Ph.D. in Leipzig

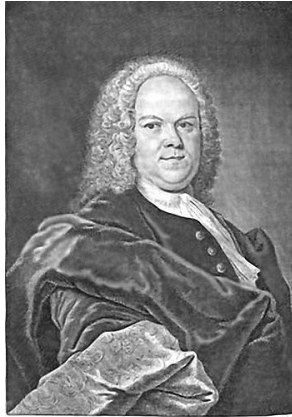
##### Professional

1733 Appointment as a Notary in Leipzig  
 1739-1746: Privatdozent in Leipzig  
 lecturing in Mathematics, Philosophy, Logic and Law  
 1746-1756: Extraordinary Professor in Leipzig  
 ≥ 1756: Professor of Mathematics and Physics in Göttingen  
 following J. A. Segner  
 Well-known for his epigrammatic poems

**Students:** Johann Friedrich Pfaff, Johann Erxleben,  
 Georg Christoph Lichtenberg, total: 9



### 3.4 Christian August Hausen 1713



*Christian August Hausen  
Mathematicum in A. ul. Lipsiensi  
Professor.*

Dissertation:

De corpore scissuris figurisque non  
cruetando ductu

Ph.D. Wittenberg 1713

Advisor 1: Johann Wichmannshausen

### Curriculum Vitae

#### Personal data

Born: 19 June 1693 in Dresden

Died: 2 May 1743 in Leipzig

Family: 1731 married to Friedricke Juliane Troppaneger, 5 children,  
only the son Karl Hausen (1740-1805) survived his father.

**Schooling:** High school education in Meißen

#### Academic studies and training

1711-1712: Student of Mathematics and Philosophy in Wittenberg

Oct 1712: Magister der Philosophie in Wittenberg

1713: Ph.D. in Wittenberg

#### Professional

1714-1726: Extraordinary Professor of Mathematics in Leipzig  
and travelling until 1724 through Germany,  
Switzerland, France and England

1726-1743: Professor of Mathematics in Leipzig

Well-known for his research on electrical phenomena

**Students:** Abraham Kästner, total: 3

## 4 In the 17th Century

### 4.1 Johann Wichmannshausen 1685



Dissertation:

Disputationem Moralem De Divortiiis Secundum Jus Naturae

Ph.D. Leipzig 1685

Advisor: Otto Mencke

### Curriculum Vitae

#### Personal data

Born: 3 Oct 1663 in Ilsenburg

Died: 17 Jan 1727 in Wittenberg

Family: 1698 married to Anna Sophia Mencke, 9 children , \*†1699  
\*1702, \*1704, \*1706, \*1707, \*1709, \*1710, \*1712 and \*1714

#### Schooling

1680-83: High school education in Gotha

#### Academic studies and training

1683-85: Student of Philology (near eastern languages) in Leipzig,  
Apr 1684 Baccalaureus, Jan 1685 Magister der Philosophie

#### Travelling

1688-91: Expedition to Helmstedt, Holland, England

1691-92: Expedition with Konrad Samuel Schurzfleisch to Italy,  
via Hungary, Mähren and Schlesien back to Wittenberg

#### Professional

1693-1727: Professor in Wittenberg

1699-1727: Director of the library at the University of Wittenberg

**Student:** Christian August Hausen

## 4.2 Otto Mencke 1665

Dissertation:

Ex Theologia naturali - De Absoluta Dei Simplicitate, Micropolitiam, id est Republicam in Microcosmo Conspicuum

Ph.D. Leipzig 1665

Advisor: Jacob Thomasius

**Curriculum Vitae****Personal data**

Born: 22 March 1644 in Oldenburg  
 Died: 18 Jan 1707 in Leipzig  
 Family: At least 1 son Johann Burckhard Mencke (1674-1732)

**Schooling:** Latin school in Oldenburg, high school in Bremen

**Academic studies and training**

1664: Magister der Philosophie in Leipzig  
 1665: Student of Theology in Jena and Leipzig

**Professional**

1667: Assessor of Philosophy in Leipzig  
 1669: Professor of Philosophy in Leipzig  
 1682: Established the first scientific journal in Germany, entitled: Acta Eruditorum

**Students:** Johann Wichmannshausen, total: 2

### 4.3 Jakob Thomasius 1643



Dissertation:

Unknown

Magister der Philosophie

Leipzig 1643

Advisor: Friedrich Leibnütz

#### Curriculum Vitae

##### Personal data

Born: 27 Aug 1622 in Leipzig

Died: 9 Sept 1684 in Leipzig

Family: 1653 married to Maria Weber (†1663), 3 children

\*1655, \*1660, \*1663,

1664 married to Maria Elisabeth Hornschuch (née Eichhorn)

7 children (6 daughters and 1 son \*1674)

##### Schooling

1638-40: High school education in Gera

##### Academic studies and training

1640-43: Student of Philosophy, Philology and Mathematics  
in Wittenberg.

1642 Baccalaureus in Leipzig

1643 Magister der Philosophie in Leipzig.

##### Professional

1648-53: Tertius, then Conrector at Nicolai School in Leipzig

1653-70: Rector at Nicolai School in Leipzig

1653-84: Professor at the University of Leipzig

**Students:** Otto Mencke and Gottfried Wilhelm Leibniz, total: 3

#### 4.4 Friedrich Leibnütz



Dissertation:  
Unknown

Advisor: Unknown

#### Curriculum Vitae

##### Personal data

Born: 1597 in Altenberg  
Died: 1652 in Leipzig  
Family: 1625 first married, 1 son and 1 daughter,  
Johann Friedrich and Anna Rosina.  
His second wife died childless in 1643,  
1644 married to Catharina Schmuck, 2 children  
Gottfried Wilhelm \*1646, Anna Catharina \*1648

##### Professional

1640-57: Professor of Moral Philosophy at Leipzig,  
being an actuary as well

**Student:** Jacob Thomasius

Gottfried Wilhelm Leibniz, the famous son of Friedrich Leibnütz, established the name Leibniz in 1671.

## 5 In chronological order



According to the Mathematics Genealogy Project, the adviser of Jacob Bernoulli (1684) is Nicolas Malbranche, and the advisor of Malbranche is Gottfried Wilhelm Leibniz. But this is not suggested by their biographies.

## 6 Second branch of advisors

### Jacob Bernoulli 1654-1705



Dissertation:

Solutionem tergemini problematis  
arithmetici, geometrici et astronomici

Dr.hab.Sci. Basel 1684

Advisor: Unknown

### Johann Bernoulli 1667-1748



Dissertation:

Dissertatio de effervescentia et fer-  
mentatione;

Dissertatio Inauguralis Physico-  
Anatomica de Motu Musculorum

Ph.D. Basel 1690, 1694

Advisor 1: Jacob Bernoulli

### Leonhard Euler 1707-1783

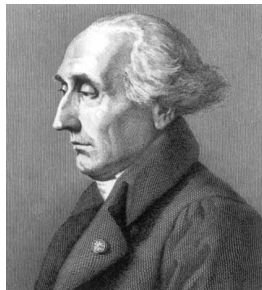


Dissertation:

Dissertatio physica de sono

Ph.D. Basel 1726

Advisor: Johann Bernoulli

**Joseph Louis Lagrange 1736-1813**

Dissertation:  
Unknown

No degree

Advisor: Leonhard Euler

**Siméon Denis Poisson 1781-1840**

Dissertation:  
Unknown

Ph.D. École Polytechnique Paris 1800

Advisor 1: Joseph Louis Lagrange

**Lejeune Dirichlet 1805-1859**

Dissertation:  
Partial Results on Fermat's Last  
Theorem, Exponent 5

Ph.D. Bonn 1827

Advisor 1: Siméon Denis Poisson



### Rudolf Lipschitz 1832-1903



Dissertation:

Determinatio status magnetici viribus inducentibus commoti in ellipsoide

Ph.D. Berlin 1853

Advisor 1: Lejeune Dirichlet

### Felix Klein 1849-1925



Dissertation:

Über die Transformation der allgemeinen Gleichung des zweiten Grades zwischen Linien-Koordinaten auf eine kanonische Form

Ph.D. Bonn 1868

Advisor 2: Rudolf Lipschitz

## 7 Appendix: Students of Robert Schaback

### Ph.D. Students in Bonn 1975-78

- 1975 Ludwig Cromme  
Dissertation: Tangentialkegel-Verfahren zur Ermittlung bester Approximationen
- 1977 Hartmut Förster  
Dissertation: Über optimale Quadraturformeln und Monosplines
- 1977 Werner Ehm  
Dissertation: Beiträge zur Theorie optimaler Interpolationspunkte
- 1978 Sabine Kamprowski  
Dissertation: Spline-Distributionen und verallgemeinerte M-Splines

### Ph.D. Students in Göttingen 1983-2009

- 1983 Immo Diener  
Dissertation: Zur Mehrdeutigkeit bei der nichtlinearen  $L^2$ -Approximation.
- 1984 Walter Brübach  
Dissertation: Klassifikation zweidimensionaler strukturell stabiler dynamischer Systeme mit Methoden aus der Graphentheorie
- 1985 Elizabeth M. Gillet  
Dissertation: Asymptotisches Verhalten diskreter dynamischer Systeme, die ein unabhängiges Untersystem enthalten
- 1986 Klaus Nottbohm  
Dissertation: Das Mehrfach-Parameter-Verfahren zur Lösung nichtlinearer diskreter Approximationsprobleme in der  $L_2$ -Norm
- 1986 Zongmin Wu  
Dissertation: Die Kriging-Methode zur Lösung mehrdimensionaler Interpolationsprobleme
- 1992 Heiko Bürger  
Dissertation: Ein Mehrphasenalgorithmus für Parallelrechner zur Bestimmung von Schnittkurven zweier Flächen
- 1994 Armin Iske  
Dissertation: Charakterisierung bedingt positiv definiter Funktionen für multivariate Interpolationsmethoden mit radialen Basisfunktionen

- 1994 Marko Weinrich  
Dissertation: Charakterisierung von Funktionenräumen bei der Interpolation mit radialen Basisfunktionen
- 1995 Thomas Früh  
Dissertation: Entwicklung eines Simulationsmodells zur Untersuchung des Wasserflusses in der verzweigten Baumarchitektur (Dr.forest)
- 1996 Holger Wendland  
Dissertation: Konstruktion und Untersuchung radialer Basisfunktionen mit kompaktem Träger
- 1997 Martina Domeyer  
Dissertation: Einsatz von Bildverarbeitungsmethoden zur optischen Deformationsmessung
- 1998 Carsten Franke  
Dissertation: Hermite-Birkhoff-Interpolation mit radialen Basisfunktionen in gewichteten Sobolew-Räumen mit Anwendung auf partielle Differentialgleichungen
- 1998 Sandro Hartmann  
Dissertation: Multilevel-Fehlerabschätzung bei der Interpolation mit radialen Basisfunktionen
- 1998 Lin-Tian Luh  
Dissertation: Characterizations of Native Spaces
- 1998 Jens Trapp  
Dissertation: Parametrisches Geometrie-Design für die Aerodynamik
- 1999 Uwe Heinz Bünting  
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- 1999 Robert Zores  
Dissertation: Integrierte Entwurfsmethoden als Basis eines Expertensystems für transsonischen Profilentwurf
- 2000 Anja Schreiber  
Dissertation: Die Methode von Smolyak bei der multivariaten Interpolation
- 2004 Roland Opfer  
Dissertation: Multiscale Kernels

- 2005 Mohammed Mouttamid  
Dissertation: Theory of power kernels
- 2006 Carsten Scheibe  
Dissertation: Design and Test of Algorithms for the Evaluation of Modern Sensors in Close-Range Photogrammetry
- 2008 Tobias Block  
Dissertation: Advanced Methods for Radial Data Sampling in Magnetic Resonance Imaging
- 2008 Christian Rieger  
Dissertation: Parameter Identification with Kernel Functions
- 2009 Stefan Müller  
Dissertation: Komplexität und Stabilität von kernbasierten Rekonstruktionsmethoden