

university of california berkeley mathematics

University of California Berkeley Mathematics: A Hub of Innovation and Excellence

university of california berkeley mathematics stands as a beacon of academic excellence and groundbreaking research in the world of higher education. Renowned for its rigorous curriculum, distinguished faculty, and vibrant research community, UC Berkeley's mathematics department has consistently attracted some of the brightest minds eager to explore the depths of mathematical theory and its diverse applications. Whether you are a prospective student, a researcher, or simply a mathematics enthusiast, understanding what makes the University of California Berkeley mathematics program unique can offer valuable insight into why it remains a top choice globally.

Why Choose University of California Berkeley Mathematics?

The University of California Berkeley mathematics department is not just about numbers and formulas; it is about fostering a deep understanding of mathematical concepts while encouraging innovation across various disciplines. Students and researchers alike benefit from a stimulating environment that blends traditional mathematical theory with cutting-edge advancements in fields such as computer science, physics, and economics.

One of the department's strengths lies in its commitment to both pure and applied mathematics. This dual focus means that learners can dive into abstract areas like algebraic geometry or number theory, while also engaging with real-world problems through applied mathematics fields such as statistics, data science, and mathematical biology.

Distinguished Faculty and Research Opportunities

UC Berkeley's mathematics faculty includes internationally acclaimed professors who have made significant contributions to their fields. Their expertise ranges across a wide spectrum of mathematical disciplines, providing students with access to mentorship and guidance from leaders in research.

The department encourages active participation in research early on, often involving undergraduates in projects alongside graduate students and faculty. This hands-on experience is invaluable for developing problem-solving skills and gaining exposure to advanced mathematical techniques. Additionally, the university hosts numerous seminars, workshops, and colloquia that connect students with ongoing research and emerging trends in mathematics worldwide.

Academic Programs and Curriculum

The University of California Berkeley mathematics department offers a comprehensive range of academic programs tailored to meet the needs of diverse students—from those seeking a solid

foundation to those aiming for specialized careers in research or industry.

Undergraduate Programs

Undergraduates at UC Berkeley can pursue a Bachelor of Arts or Bachelor of Science in Mathematics. The curriculum is designed to build a strong foundational understanding before allowing students to tailor their studies through electives in areas such as:

- Abstract Algebra
- Real and Complex Analysis
- Topology and Geometry
- Probability and Statistics
- Computational Mathematics

Moreover, students interested in interdisciplinary studies can combine mathematics with computer science, physics, or economics, reflecting the department's flexible and integrative approach.

Graduate Programs

Graduate students benefit from a rigorous Ph.D. program that emphasizes original research and scholarly contribution. The graduate curriculum includes advanced coursework and qualifying exams that prepare students for in-depth research projects. Many graduate students collaborate on cutting-edge problems in fields like cryptography, mathematical physics, and number theory.

Additionally, UC Berkeley offers master's degrees in applied mathematics and statistics, providing a pathway for students aiming to enter industry roles or further research.

Research Excellence and Impact

The research environment within university of california berkeley mathematics is vibrant and dynamic, often pushing the boundaries of what is known in mathematics and its applications. The department has been home to multiple Fields Medalists and other prestigious award winners, highlighting its global impact.

Areas of Research Strength

The department's research spans numerous specialized fields, including but not limited to:

- Algebraic Geometry and Number Theory
- Dynamical Systems and Ergodic Theory
- Mathematical Physics and Quantum Field Theory
- Probability Theory and Stochastic Processes
- Computational Mathematics and Algorithms

These research areas often intersect with other disciplines, fostering interdisciplinary collaborations that enhance both theoretical understanding and practical applications.

Collaborations and Institutes

UC Berkeley's mathematics department collaborates closely with other departments and research institutes such as the Simons Institute for the Theory of Computing and the Mathematical Sciences Research Institute (MSRI). These partnerships provide additional resources and platforms for students and faculty to engage with the broader mathematical community and participate in international workshops and conferences.

Student Life and Community

Beyond academics and research, the university of california berkeley mathematics community thrives on collaboration and support. Students have access to various clubs, tutoring programs, and study groups that enhance their learning experience.

Mathematics Student Organizations

Several student-run organizations focus on math enrichment, career development, and fostering a sense of community. Examples include:

- The Berkeley Math Circle, which offers problem-solving sessions and math competitions.
- The Undergraduate Mathematics Association, providing networking events and peer support.
- Graduate student groups organizing seminars and social activities.

These organizations play a crucial role in creating a supportive and engaging atmosphere for all students, encouraging peer-to-peer learning and professional growth.

Career Paths and Alumni Success

Graduates of the University of California Berkeley mathematics program have gone on to excel in academia, industry, finance, technology, and government sectors. The department's strong reputation combined with its emphasis on analytical thinking and problem-solving equips students with skills highly sought after in diverse fields.

Career services at Berkeley also offer tailored support for mathematics students, including internship placements, job fairs, and mentorship programs that connect students with alumni and potential employers.

Tips for Prospective Students Interested in UC Berkeley Mathematics

If you're considering applying to the university of california berkeley mathematics program, here are some helpful pointers:

1. **Build a Strong Foundation:** Focus on excelling in high school math courses such as calculus, linear algebra, and statistics to prepare for the program's rigor.
2. **Engage in Math Competitions:** Participating in contests like the AMC or AIME can sharpen your problem-solving skills and strengthen your application.
3. **Explore Research Opportunities Early:** Seek internships, summer programs, or projects that introduce you to mathematical research and applications.
4. **Connect with Current Students and Faculty:** Attend university events, virtual info sessions, or reach out to faculty members to learn more about the department culture and expectations.
5. **Emphasize Interdisciplinary Interests:** If you have passions that intersect with mathematics, such as computer science or economics, highlight these in your application to showcase your versatility.

These strategies can help you stand out and make the most of your education at UC Berkeley.

The university of california berkeley mathematics department offers a rich blend of tradition, innovation, and community that continues to inspire generations of mathematicians. Whether drawn by the allure of pure theory or the challenge of applied problems, students here find an environment where curiosity and creativity thrive, opening doors to remarkable academic and professional journeys.

Frequently Asked Questions

What are the main research areas in the Mathematics Department at UC Berkeley?

The Mathematics Department at UC Berkeley focuses on diverse research areas including algebraic geometry, number theory, topology, analysis, mathematical physics, and applied mathematics.

How can I apply to the graduate mathematics program at UC Berkeley?

To apply to the graduate mathematics program at UC Berkeley, you need to submit an online application through the university's Graduate Division website, including transcripts, letters of recommendation, a statement of purpose, GRE scores (if required), and meet the application deadlines.

What undergraduate mathematics courses are offered at UC Berkeley?

UC Berkeley offers a wide range of undergraduate mathematics courses, from introductory calculus and linear algebra to advanced topics like real analysis, abstract algebra, differential equations, and mathematical logic.

Does UC Berkeley Mathematics Department offer any online or distance learning courses?

UC Berkeley offers some online and extension courses in mathematics through its Extension program and edX platform, though most core mathematics courses are primarily available on campus.

What career opportunities do UC Berkeley mathematics graduates typically pursue?

Graduates from UC Berkeley's Mathematics Department often pursue careers in academia, research, data science, finance, technology, engineering, and government sectors, leveraging strong analytical and problem-solving skills.

Are there any notable mathematicians associated with UC Berkeley?

Yes, UC Berkeley has been home to many renowned mathematicians such as Shiing-Shen Chern, John G. Thompson, and David Eisenbud, who have made significant contributions to various fields within mathematics.

Additional Resources

University of California Berkeley Mathematics: A Hub of Excellence and Innovation

university of california berkeley mathematics stands as a beacon of academic rigor, groundbreaking research, and comprehensive education in mathematical sciences. Renowned globally for its influential faculty, cutting-edge research output, and vibrant academic community, UC Berkeley's Department of Mathematics offers a compelling environment for students and scholars alike. This article delves into the various facets of Berkeley's mathematics program, exploring its historical significance, research strengths, academic offerings, and the broader impact on both academia and industry.

Historical and Academic Prestige

The University of California Berkeley mathematics department traces its roots back over a century, establishing itself as one of the most prestigious mathematics departments in the United States. The department has been instrumental in shaping modern mathematical thought, contributing to foundational developments in fields such as algebraic geometry, number theory, and mathematical physics. Over the decades, Berkeley has attracted some of the most celebrated mathematicians, including Fields Medal winners and members of the National Academy of Sciences, reinforcing its reputation as a world-class institution.

Berkeley's commitment to academic excellence is reflected in its rigorous curriculum designed to challenge students while fostering deep conceptual understanding. The undergraduate and graduate programs emphasize both theoretical foundations and practical applications, preparing students for diverse career paths ranging from academia and research to finance, technology, and data science.

Research Excellence and Innovation

One of the defining characteristics of university of california berkeley mathematics is its vibrant research culture. Faculty members actively engage in pioneering investigations across a broad spectrum of mathematical disciplines. The department consistently ranks among the top mathematics research programs globally, supported by substantial funding from agencies such as the National Science Foundation (NSF) and the Department of Energy (DOE).

Core Research Areas

Berkeley's mathematics department is especially noted for its strengths in:

- **Algebraic Geometry and Commutative Algebra:** Researchers at Berkeley have made landmark contributions to understanding geometric structures defined by polynomial equations, influencing both pure and applied mathematics.
- **Number Theory:** The department has an active group working on problems related to prime

numbers, modular forms, and cryptographic applications.

- **Topology and Geometry:** The study of shapes, spaces, and their properties continues to thrive at Berkeley, with interdisciplinary collaborations extending into physics and computer science.
- **Mathematical Physics:** Faculty members explore the mathematical underpinnings of quantum mechanics, string theory, and statistical mechanics.
- **Applied Mathematics and Computational Mathematics:** The department bridges pure math with real-world challenges by developing algorithms and models for data analysis, machine learning, and engineering problems.

The department's research seminars, workshops, and conferences frequently attract international scholars, fostering a dynamic exchange of ideas. Furthermore, the presence of various specialized research groups and centers enhances interdisciplinary collaboration, making Berkeley a nexus for mathematical innovation.

Graduate Studies and Doctoral Training

Graduate education in Berkeley's mathematics department is designed to cultivate independent, innovative researchers. The PhD program offers extensive coursework and research opportunities, encouraging students to engage with multiple mathematical subfields. Doctoral candidates benefit from close mentorship by distinguished faculty and access to an extensive network of academic and professional contacts.

Graduate students also have opportunities to participate in teaching assistantships, research projects, and interdisciplinary initiatives. This holistic approach equips graduates with both deep theoretical knowledge and practical skills, facilitating successful careers in academia, industry, and beyond.

Undergraduate Program and Student Experience

The university of california berkeley mathematics undergraduate program is structured to balance breadth and depth in mathematical education. The curriculum spans fundamental topics such as calculus, linear algebra, and differential equations, while also offering advanced courses in abstract algebra, real analysis, and probability theory.

Opportunities Beyond the Classroom

Undergraduates have access to numerous extracurricular activities that enhance their academic journey:

- **Math Club and Competitions:** Berkeley's Math Club organizes problem-solving sessions, guest lectures, and participates in prestigious contests such as the Putnam Competition.
- **Research Opportunities:** Through programs like the Undergraduate Research Apprentice Program (URAP), students collaborate on cutting-edge projects alongside faculty researchers.
- **Internships and Industry Connections:** The department maintains relationships with Silicon Valley companies, financial institutions, and research labs, providing pathways for internships and employment.

Such initiatives foster a collaborative and intellectually stimulating environment, enabling students to apply theoretical concepts to practical challenges and to develop professional networks early in their careers.

Comparative Advantages and Challenges

When compared to peer institutions, university of california berkeley mathematics holds several competitive advantages:

- **Faculty Expertise:** The department boasts an impressive roster of scholars whose research impacts multiple areas of mathematics and allied disciplines.
- **Interdisciplinary Collaboration:** Berkeley's campus-wide emphasis on cross-disciplinary research allows mathematicians to engage with fields such as computer science, economics, and biology.
- **Location:** Situated near Silicon Valley, the department benefits from proximity to tech industries and start-ups, offering students and faculty unique opportunities for collaboration and innovation.

However, the program also faces challenges typical of top-tier institutions. The competitive admission landscape can be daunting for prospective students, and the intensity of coursework demands resilience and strong foundational skills. Additionally, the large size of the university sometimes results in a less personalized undergraduate experience compared to smaller liberal arts colleges.

Faculty Diversity and Inclusion Efforts

Recognizing the importance of diversity in enriching academic discourse, the university of california berkeley mathematics department has implemented initiatives to support underrepresented groups in mathematics. These efforts include mentorship programs, outreach to K-12 schools, and partnerships with organizations aimed at increasing the participation of women and minorities in STEM fields.

Such programs contribute to creating an inclusive environment where a broader range of

perspectives enhances problem-solving and innovation.

Impact on Industry and Society

The influence of Berkeley's mathematics department extends well beyond academia. Alumni and faculty have contributed significantly to technological advancements, financial modeling, cryptography, and data science. The department's emphasis on both theoretical and applied mathematics ensures that its research translates into tangible benefits for society.

Collaborations with tech giants, government agencies, and non-profit organizations demonstrate the department's commitment to addressing real-world problems. The integration of mathematical principles into artificial intelligence, cybersecurity, and environmental modeling exemplifies Berkeley's role at the forefront of impactful research.

Through public lectures, community engagement, and open-access publications, the university of california berkeley mathematics department also plays a vital role in promoting mathematical literacy and inspiring future generations of mathematicians.

In summary, university of california berkeley mathematics epitomizes a blend of tradition, innovation, and academic excellence. Its comprehensive programs, distinguished faculty, and commitment to fostering a diverse and dynamic community position it as a leader in the global mathematical landscape. Whether through pioneering research or shaping young minds, Berkeley continues to advance the frontiers of mathematics in profound and lasting ways.

University Of California Berkeley Mathematics

university of california berkeley mathematics: [Berkeley Mathematics Lecture Notes](#) , 1993

university of california berkeley mathematics: [A Decade of the Berkeley Math Circle](#)

Zvezdelina Stankova, Tom Rike, 2008-11-26 Many mathematicians have been drawn to mathematics through their experience with math circles: extracurricular programs exposing teenage students to advanced mathematical topics and a myriad of problem solving techniques and inspiring in them a lifelong love for mathematics. Founded in 1998, the Berkeley Math Circle (BMC) is a pioneering model of a U.S. math circle, aspiring to prepare our best young minds for their future roles as mathematics leaders. Over the last decade, 50 instructors--from university professors to high school teachers to business tycoons--have shared their passion for mathematics by delivering more than 320 BMC sessions full of mathematical challenges and wonders. Based on a dozen of these sessions, this book encompasses a wide variety of enticing mathematical topics: from inversion in the plane to circle geometry; from combinatorics to Rubik's cube and abstract algebra; from number theory to mass point theory; from complex numbers to game theory via invariants and monovariants. The treatments of these subjects encompass every significant method of proof and emphasize ways of thinking and reasoning via 100 problem solving techniques. Also featured are 300 problems, ranging from beginner to intermediate level, with occasional peaks of advanced problems and even some open questions. The book presents possible paths to studying mathematics and inevitably falling in love with it, via teaching two important skills: thinking creatively while still ``obeying the rules," and

making connections between problems, ideas, and theories. The book encourages you to apply the newly acquired knowledge to problems and guides you along the way, but rarely gives you ready answers. ``Learning from our own mistakes'' often occurs through discussions of non-proofs and common problem solving pitfalls. The reader has to commit to mastering the new theories and techniques by ``getting your hands dirty'' with the problems, going back and reviewing necessary problem solving techniques and theory, and persistently moving forward in the book. The mathematical world is huge: you'll never know everything, but you'll learn where to find things, how to connect and use them. The rewards will be substantial. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.

university of california berkeley mathematics: *Mathematics at Berkeley* Calvin C. Moore, 2007-02-07 In this fascinating history of the mathematics department at the University of California, Berkeley, Moore describes how this institution evolved from a single faculty member at a financially-troubled private college into a major research center that is ranked among the very best in the USA and in the world. Moore's account spans from its origins in the 1850s to the establishment and early years of the Mathematical Sciences Research Institute (MSRI) in the early to mid 1980s.

university of california berkeley mathematics: *Berkeley Problems in Mathematics* Paulo Ney de Souza, Jorge-Nuno Silva, 2004-01-20 This book collects approximately nine hundred problems that have appeared on the preliminary exams in Berkeley over the last twenty years. It is an invaluable source of problems and solutions. Readers who work through this book will develop problem solving skills in such areas as real analysis, multivariable calculus, differential equations, metric spaces, complex analysis, algebra, and linear algebra.

university of california berkeley mathematics: **Discrete Mathematics and Its Applications** Kenneth H. Rosen, 2019

university of california berkeley mathematics: **Evaluation of NSF's Program of Grants for Vertical Integration of Research and Education in the Mathematical Sciences (VIGRE)** National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee to Evaluate the NSF's Vertically Integrated Grants for Research and Education (VIGRE) Program, 2010-01-22 In 1998, the National Science Foundation (NSF) launched a program of Grants for Vertical Integration of Research and Education in the Mathematical Sciences (VIGRE). These grants were designed for institutions with PhD-granting departments in the mathematical sciences, for the purpose of developing high-quality education programs, at all levels, that are vertically integrated with the research activities of these departments. To date, more than 50 departments at 40 institutions have received VIGRE awards. As requested by NSF, the present volume reviews the goals of the VIGRE program and evaluates how well the program is designed to address those goals. The book considers past and current practices for assessing the VIGRE program; draws tentative conclusions about the program's achievements based on the data collected to date; and evaluates NSF's plans for future data-driven assessments. In addition, critical policy and programmatic changes for the program are identified, with recommendations for how to address these changes.

university of california berkeley mathematics: Register - University of California University of California, Berkeley, 1899

university of california berkeley mathematics: **Representations of Quantum Algebras and Combinatorics of Young Tableaux** Susumu Ariki, 2002 This book contains most of the nonstandard material necessary to get acquainted with this new rapidly developing area. It can be used as a good entry point into the study of representations of quantum groups. Among several tools used in studying representations of quantum groups (or quantum algebras) are the notions of Kashiwara's crystal bases and Lusztig's canonical bases. Mixing both approaches allows us to use a combinatorial approach to representations of quantum groups and to apply the theory to

representations of Hecke algebras. The primary goal of this book is to introduce the representation theory of quantum groups using quantum groups of type A_{r-1} as a main example. The corresponding combinatorics, developed by Misra and Miwa, turns out to be the combinatorics of Young tableaux. The second goal of this book is to explain the proof of the (generalized) Leclerc-Lascoux-Thibon conjecture. This conjecture, which is now a theorem, is an important breakthrough in the modular representation theory of the Hecke algebras of classical type. The book is suitable for graduate students and research mathematicians interested in representation theory of algebraic groups and quantum groups, the theory of Hecke algebras, algebraic combinatorics, and related fields.

university of california berkeley mathematics: Handbook Of Industrial Automation

Richard Shell, 2000-08-29 Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation, including mathematical fundamentals, ergonometics, industrial robotics, government safety regulations, and economic analyses.

university of california berkeley mathematics: Geometry: Euclid and Beyond

Robin Hartshorne, 2013-11-11 In recent years, I have been teaching a junior-senior-level course on the classical geometries. This book has grown out of that teaching experience. I assume only high-school geometry and some abstract algebra. The course begins in Chapter 1 with a critical examination of Euclid's Elements. Students are expected to read concurrently Books I-IV of Euclid's text, which must be obtained separately. The remainder of the book is an exploration of questions that arise naturally from this reading, together with their modern answers. To shore up the foundations we use Hilbert's axioms. The Cartesian plane over a field provides an analytic model of the theory, and conversely, we see that one can introduce coordinates into an abstract geometry. The theory of area is analyzed by cutting figures into triangles. The algebra of field extensions provides a method for deciding which geometrical constructions are possible. The investigation of the parallel postulate leads to the various non-Euclidean geometries. And in the last chapter we provide what is missing from Euclid's treatment of the five Platonic solids in Book XIII of the Elements. For a one-semester course such as I teach, Chapters 1 and 2 form the core material, which takes six to eight weeks.

university of california berkeley mathematics: Nonlinear Programming

Lorenz T. Biegler, 2010-01-01 This book addresses modern nonlinear programming (NLP) concepts and algorithms, especially as they apply to challenging applications in chemical process engineering. The author provides a firm grounding in fundamental NLP properties and algorithms, and relates them to real-world problem classes in process optimization, thus making the material understandable and useful to chemical engineers and experts in mathematical optimization.

university of california berkeley mathematics: Modern Methods in Scientific Computing and Applications

Anne Bourlioux, Martin Gander, 2012-12-06 When we first heard in the spring of 2000 that the Seminaire de mathematiques superieures (SMS) was interested in devoting its session of the summer of 2001 to scientific computing the idea of taking on the organizational work seemed to us somewhat remote. More immediate things were on our minds: one of us was about to go on leave to the Courant Institute, the other preparing for a research summer in Paris. But the more we learned about the possibilities of such a seminar, the support for the organization and also the great history of the SMS, the more we grew attached to the project. The topics we planned to cover were intended to span a wide range of theoretical and practical tools for solving problems in image processing, thin films, mathematical finance, electrical engineering, moving interfaces, and combustion. These applications alone show how wide the influence of scientific computing has become over the last two decades: almost any area of science and engineering is greatly influenced by simulations, and the SMS workshop in this field came very timely. We decided to organize the workshop in pairs of speakers for each of the eight topics we had chosen, and we invited the leading experts worldwide in these fields. We were very fortunate that every speaker we invited accepted to come, so the program could be realized as planned.

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Clarence Bernhart Lindquist, 1965

university of california berkeley mathematics: Commencement Programs University of California, Berkeley, 1962

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university of california berkeley mathematics: Nonlinear Problems: Present and Future

A. Bishop, D. Campbell, B. Nicolaenko, 1982-01-01 Nonlinear Problems: Present and Future

university of california berkeley mathematics: Vortex Dynamics and Vortex Methods

Christopher Radcliff Anderson, Claude Greengard, 1991-12-23 Understanding vortex dynamics is the key to understanding much of fluid dynamics. For this reason, many researchers, using a great variety of different approaches--analytical, computational, and experimental--have studied the dynamics of vorticity. The AMS-SIAM Summer Seminar on Vortex Dynamics and Vortex Methods, held in June 1990 at the University of Washington in Seattle, brought together experts with a broad range of viewpoints and areas of specialization. This volume contains the proceedings from that seminar. The focus here is on the numerical computation of high Reynolds number incompressible flows. Also included is a smaller selection of important experimental results and analytic treatments. Many of the articles contain valuable introductory and survey material as well as open problems. Readers will appreciate this volume for its coverage of a wide variety of numerical, analytical, and experimental tools and for its treatment of interesting important discoveries made with these tools.

university of california berkeley mathematics: Encyclopedia of World Scientists,

Updated Edition Elizabeth Oakes, 2020-07-01 Encyclopedia of World Scientists, Updated Edition is a comprehensive reference tool for learning about scientists and their work. It includes 500 cross-referenced profiles of well-known scientific greats of history and contemporary scientists whose work is verging on prominence. More than 100 entries are devoted to women and minority scientists. Each entry includes the subject's full name, dates of birth/death, nationality, and field(s) of specialization. A biographical essay focuses primarily on the subject's scientific work and achievements; it also highlights additional information, such as place of birth, parents' names and occupations, name(s) of spouse(s) and children, educational background, jobs held, and awards earned. Profiles include: Archimedes (c. 287–212 BCE): Mathematician Nicolaus Copernicus (1473–1543): Astronomer Galileo Galilei (1564–1642): Astronomer Daniel Bernoulli (1700–1782): Mathematician John James Audubon (1785–1851): Biologist Elizabeth Blackwell (1821–1910): Medical scientist Alfred Bernhard Nobel (1833–1896): Chemist Albert Einstein (1879–1955): Physicist Niels Bohr (1885–1962): Physicist George Washington Carver (c. 1861–1943): Chemist Marie Curie (1867–1934): Physicist and chemist Robert Hutchings Goddard (1882–1945): Aerospace engineer Edwin Powell Hubble (1889–1953): Astronomer Grace Murray Hooper (1906–1992): Computer scientist Dorothy Crowfoot Hodgkin (1910–1994): Chemist Jacques-Yves Cousteau (1910–1997): Earth scientist Alan Turing (1912–1954): Computer scientist Jonas Edward Salk (1914–1995): Medical scientist Rosalind Franklin (1920–1958): Chemist Jewel Plummer Cobb (1924–2017): Biologist Stephen Hawking (1942–2018): Astronomer.

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