

How frigate birds soar high and far p.26.

How electrons make their escape p.28



NEXTGEN VOICES

Science in brief

In April, we asked young scientists to **use exactly six words to create a story about the life of a scientist in your field.** We received almost 400 responses, some frustrated, some inspiring, some humorous, and all describing a life unique to a scientist. We have printed some of the most interesting responses here. Follow *Science*'s NextGen VOICES survey on Twitter with the hashtag #NextGenSci.

On careers

First job interview. Buy hair dye. **Wen Jiang**, Oncology, USA

Thank goodness: Yet another 6-month contract!

Daniela Liebsch, Plant Biology, Sweden

Education: Multiple university degrees.

Profession: n/a.

Wioleta Kijewska, Computational Neuroscience, Poland

On data

Koch postulates: TB, or not TB? **Digby F. Warner**,

 $My cobacteriology, South\,Africa$

Big data! Clean: No statistical power.

Abhishek Niroula, Bioinformatics, Sweden

Data overload: Juggling balls, many fall.

Noa Sher, Cell Therapy, Israel

Calculation first, interpretation later. Or, never.

Bongjae Kim, Computational Materials Science, South Korea

P equals 0.051. Repeat? Abandon? Bayes?

Rosa Li, Psychology and

Neuroscience, USA

Science: seeking answers amidst whack-a-mole problems. **David Jason Garfield,** Chemistry, USA

On setbacks

Mice eaten by cats, graduation delayed.

Chenggang Yan, Intelligent Information
Processing, China

The experiment failed. Or did I? *Irina Tiper, Immunology, USA*

Exciting new result! No...coding mistake. Frank X. Vazquez, Chemistry, USA

Results were promising, until they weren't.

David Edward Gilbert, Energy and Environmental Genomics, USA

"My new discovery!" became old today. Han Sang Kim, Cancer Genomics, Medical Oncology, South Korea

On funding

New outbreak. Funding reprioritized. New outbreak.

Jonathan J. Madara, Virology, USA

Scooped. No grant. Back to clinic. Agnes Hou Ngee Tay, Genetics, Singapore

Grant seeker: Amazing skills, sadly unfunded.

Katie A. Clark, Molecular Genetics, USA

Asteroid-bound spacecraft, under proposal pressure.

Christine Hartzell, Aerospace Engineering, USA

Funding needed for error bar revisions. Angela Claire Tomczik, Neuroscience, USA

On recognition

Epilogue: Changed the world, few knew. Greg Maguire, Physiology and Systems Biology, USA

...but you're not a "doctor" Dr. Kota Hatta, Medical Sciences, Japan Frequently right. Never forgotten when wrong.

Marian Peleski, Meteorolgy, USA

"Unsung hero in sustainability," says tombstone.

Bing Xue, Sustainability, China

On diversity

You're brilliant, but you're not American. Yuka Takemon, Genomics, USA

Female scientist, struggle for fairness persists.

Masha Georges Savelieff, Chemistry and Biology, USA

Developing countries: Brains of advanced countries.

Mahmoud Mohamed Shehata, Molecular Virology and Infectious Diseases, Egypt

On parenthood

Reproductive scientist. Freezing her own eggs.

Germaine Goh, Cell Biology, Singapore

Sorry son, I should be writing. Timothy L. Easun, Chemistry, UK

"Planning on children?" No right answer. Heather M. Lee, Immunology, USA

Toward "reproducibility," not "reproducing ability," Mom.

Emily Kay Petruccelli, Neurogenetics, USA

"Postdoc. Father. Balanced today... but tomorrow?"

Matt Wiebe, Virology, USA

On discovery

There's something alive in the incubator. N. H. Diane Kim, Bioengineering, USA

Modern ancient Palmyra. Civilization falls, again.

Daniel H. Sandweiss, Archaeology, USA

Scientist, looking closely, mistakenly finds truth.

Joshua Isaac James, Digital Forensic Science, South Korea

Controlled chaos revealing explosive stellar events.

Gregory R. Sivakoff, Astronomy, Canada

Planets found. Now searching for life. David A. Weintraub, Astronomy, USA

Synthetic biologist: Engineering life over coffee!

Zarrin Basharat, Bioinformatics, Microbiology, Environmental Sciences, Pakistan

Deep sequencing can't replace deep thinking.

Dan Webster, Cancer Genomics, USA

Bridging scientists with software: Challenge accepted!

Michael A. Tarselli, Chemistry Information Systems, USA

Diving in sand, bridging adjacent ecosystems.

Kyle Aaron Emery, Coastal Ecology, USA

Animal, let me in your mind.

Mirjam Johanna Guesgen, Ethology and Zoology, Canada

Fire Science: Hot bodies, cool heads. Norman Joseph Alvares, Fire Science, USA

Old rocks, new theory, old rocks. David W. Szymanski, Geology, USA

Beware the restlessness of coastal sand. Donald C. Barber, Geology, USA

Surgeons should wear masks! Possibly not? Silvio Daniel Pitlik, Infectious Diseases, Israel





Look! He dreams about his mom! Bohan Zhao, Neuroscience, China

Thinking over the nature of thought. Rohan Sharma, Neuroscience, India

Everything in moderation, or maybe not? Ryan Alexander Coots, Nutritional Sciences, USA

Drought approaches; previous symbionts become enemies.

Amelia Snyder, Plant Ecology, USA

Hybrid rice, whole life, unchanged farmer. Rong jun Chen, Rice Breeding, China

Let's create a dancing colorful bacteria. Anibal A. Arce, Synthetic Biology-Plants, Chile

β-cells: Hey! Come and kill me. Ubaid Ullah, Type-1 Diabetes, Finland

Budding yeast research makes better beer. V. Sriram, Yeast Genetics, USA

ADD YOUR STORY!

Do you have a six-word story to add? Post it on Twitter with the hashtag #NextGenSci and tag @sciencemagazine. We may print your story and your Twitter username in an upcoming issue!

Remote area, broken shoes, good papers. Wenjin Xia, Geography, China

Cut jungle. Found temple. It rained. Felicia Beardsley, Archaeology in the Tropical Pacific, USA

I bunsen burnt my 1118th worm. Eugene L. Q. Lee, Neuroscience, USA

On schedules

Warning: No lunch at noon seminar. Richard Kyle Lacher, Immunology, USA

Carpool partner available: 5am/11pm every day.

Hoang Lu, Chemical and Biological Engineering, USA

Science and life, compartmentalized, need integration.

King L. Chow, Life Science, China

Living my life under extreme pressure. Alexandra Seclaman, Mineral Physics, Germany

Post Ph.D.: 30 is new 20.

Terry McCallum, Organic Chemistry, Canada

Scientists, no different from lab rats. Kingston Mak, Developmental Biology, Hong Kong

Published by AAAS

On publishing

Dear incompetent reviewer, we fully agree.

Mathias V. Schmidt, Neuroscience, Germany

Science journalist seeks acronym-free story. Carol Lynn Alpert, Science Communication, USA

Now deleting: Negative results, never published.

Yifan Li, Chemistry, USA

Reviewer wants "just one" more experiment!

Luis Mendoza, Computational Biology, Mexico

No prestige given for null results. John Protzko, Psychology, USA

Endlessly pipetting toward first author dreams.

Heather M. Lee, Immunology, USA

On motivation

Living beings make me like fossils. Shivangi Tiwari, Geology, India

Engineering life, to better everyone's lives. Do Soon Kim, Chemical Engineering and Synthetic Biology, USA

Persist: You can make a difference. Sean M. Hartzell, Conservation Biology and Herpetology, USA

A child, looking up, becomes explorer. Paul Kevin Byrne, Planetary Science, USA

Continuous failure redeemed by fleeting success.

Ken Halvorsen, Biophysics, USA

Completely frustrated; insight precedes joy. Repeat.

Timothy Michael Kernan, Microbiology and Bioengineering, Canada

Try. Fail. Try harder. Fail again. Robert Kumsta, Psychology, Germany

Scientists: Global citizens with local burdens. Hari Krishna Bisoyi, Synthesis and Study of Organic Liquid Crystalline Materials, USA

Cradle to grave fight against waste. Jingzheng Ren, Environmental Engineering, Denmark



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Science **353** (6294), 22-24. DOI: 10.1126/science.353.6294.22

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