RuhrFellowship Program
June 5 - July 31, 2018
Welcome Ruhrfellows,

We would like to welcome you as fellows of our RuhrFellowship Program 2018.

According to the DAAD, the German Academic Exchange Service, Germany is already the third most important host country for American students – after Great Britain and Canada. The Ruhr area is hereby increasingly attracting American students with its close network of universities, its innovative and worldwide operating enterprises as well as its lively cultural and social scene. This is exactly where the RuhrFellowship comes in, with the aim to improve the image of the Ruhr metropolis and get talented young people from American elite universities interested in our region. The demand is high: this year about three times more students applied to the RuhrFellowship than there were positions to award. In a program that combines a four-week summer school at TU Dortmund University and a four-week internship, you will improve your German language skills, get to know the universities of the University Alliance Ruhr, discuss actual topics during the “Cultural Series” lectures, participate in exciting excursions and have internships in German companies. Against this background you will get to know the Ruhr area as an environment for living, studying and working.

For the internship part of this year’s program, we are proud to partner with Bayer, BRENNTAG, DSW 21, HOCHTIEF, innogy, ista international, Ruhnerband, SMS group GmbH, Taros, Vaillant and Wirtschaftsförderung Dortmund. The RuhrFellowship Program is organized by the University Alliance Ruhr in cooperation with the Max Kade Foundation and the Wirtschaftsförderung Dortmund and brings students from renowned US universities to the Ruhr area since 2012. No matter whether university, economy or RuhrFellow – all parties profit from our program. This applies particularly to participants who return for further qualifications or with the aim of starting a professional career in our region. After their return to the USA, the Ruhrfellows are closely integrated into the alumni program of the Liaison Office of the UA Ruhr in New York.

We are excited to have you on board for our RuhrFellowship Program 2018 and hope you will return with lots of new insights, transatlantic connections and valuable experiences.

Dr. Barbara Schneider
Director International Office
TU Dortmund University

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The University Alliance Ruhr is an alliance between the Ruhr University Bochum (RUB), TU Dortmund University (TUDO), and the University of Duisburg-Essen (UDE), the three largest universities in Germany’s thriving Ruhr area. Each of our institutions has a strong tradition of breaking down walls between disciplines. We believe in the benefits of collaboration on all levels of scholarship and research, which is one of the reasons we came together in this unique university alliance.

More than 120,000 students, of which 19,000 are international, as well as over 9,000 researchers study and work within the UA Ruhr universities. Together, the three universities have 800 partnerships with universities in over 130 countries and a combined annual budget of close to 1.4 billion euros – which provides our students and researchers with virtually unlimited possibilities for exchange and resources for development. To support our already strong global network of international exchange and collaboration, the UA Ruhr has also created academic liaison offices for North America, Latin America, and Russia.

The Ruhr area is not only Germany’s largest academic hub, but also an epicenter of innovation that fosters close interaction between academia and the private sector – and our alliance provides students and researchers from around the world with an open gateway to our region.

We invite you to learn more about the UA Ruhr alliance and our universities, and we look forward to welcoming you in the Ruhr area soon!
**Program**

**Tuesday, June 5, 2018**
9:30am-10:00am  Welcome RuhrFellows 2018
10:15am-11:15am Orientation on Campus
11:30am-1:00pm  Discussion of Schedule and Organizational Topics
1:15pm-1:45pm  Placement Test / German Language Course
2:00pm-4:15pm

**Wednesday, June 6, 2018**
11:00am-12:00pm  Bank Account Opening (Group 1)
12:15pm-1:30pm  German Language Course
1:00pm-2:00pm  Bank Account Opening (Group 2)
3:15pm-5:15pm  Guided City Tour

**Thursday, June 7, 2018**
12:00pm-2:00pm  Excursion: Innogy
3:45pm-5pm  German Language Course

**Friday, June 8, 2018**
8:30am-10:00am  Center for Entrepreneurship & Transfer
10:30am-12:30pm  Faculty of Mechanical Engineering - Institute of Forming Technology and Lightweight Components

**Monday, June 11, 2018**
8:30am-10:00am  Cultural Series: The Ruhr’s Urban Transformation (Dr. Julia Sattler)
10:30am-1:45pm  German Language Course

**Tuesday, June 12, 2018**
8:30am-11:45am  German Language Course
4:00pm-5:30pm  Cultural Series: Germany - A Transatlantic Perspective (Prof. Dr. Walter Grünzweig)

**Thursday, June 14, 2018**
10:00am-2:15pm  Excursion: University of Duisburg-Essen

**Friday, June 15, 2018**
8:30am-11:45am  German Language Course

**Monday, June 18, 2018**
11:00am-2:30pm  Excursion: Staatskanzlei & Landtag NRW

**Tuesday, June 19, 2018**
8:30am-11:45am  German Language Course
1:00pm-2:30pm  Cultural Series: Relationship Status: It’s complicated! Germany and the European Union in Today’s Changing Environment (Dr. Kathrin Rucktäschel)
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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>Wednesday, June 20, 2018</td>
<td>Whole Day</td>
<td>Introduction To Internship</td>
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<tr>
<td>Thursday, June 21, 2018</td>
<td>10:00am-4:00pm</td>
<td>Excursion: Ruhr University Bochum</td>
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<td>Friday, June 22, 2018</td>
<td>8:30am-11:45am</td>
<td>German Language Course Cultural Series: Social Innovation (Prof. Dr. Jürgen Howaldt)</td>
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<td>Monday, June 25, 2018</td>
<td>11:30am-3:00pm</td>
<td>Excursion: Evonik Creavis</td>
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<td>Tuesday, June 26, 2018</td>
<td>9:00am-10:30am</td>
<td>German Language Course Cultural Series: Differences in Cultural Standards between the U.S. and Germany (Prof. Dr. Hartmut Holzmüller)</td>
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<tr>
<td>Tuesday, June 26, 2018</td>
<td>2:00pm-3:30pm</td>
<td>Cultural Series: Differences in Cultural Standards between the U.S. and Germany (Prof. Dr. Hartmut Holzmüller)</td>
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<tr>
<td>Wednesday, June 27, 2018</td>
<td>10:00am-1:00pm</td>
<td>Guided Site Tour Wirtschaftsförderung Dortmund</td>
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<tr>
<td>Thursday, June 28, 2018</td>
<td>9:00am-11:00am</td>
<td>Faculty of Biochemical and Chemical Engineering BVB Tour / Stadium Signal Iduna Park</td>
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<tr>
<td>Thursday, June 28, 2018</td>
<td>2:10am-3:10pm</td>
<td>German Football Museum</td>
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<tr>
<td>Friday, June 29, 2018</td>
<td>1:30pm-10:00pm</td>
<td>Fraunhofer Institute for Material Flow and Logistics Meeting of the Minds</td>
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Participants

Tatsuya Daniel
Tatsuya (Tats) Daniel will be a junior at MIT in the fall majoring in Physics and Mathematics and minoring in German. He is half Japanese and half African-American, and mostly grew up in the Chicago area. One of his biggest hobbies is distance running, about 40-60 miles a week. He loves learning new languages – he can currently speak English, Japanese, German and a little bit of Spanish, and he wants to eventually be able to speak ten different languages. Additionally, he has been in 19 different countries (and counting!) since starting college.

Madison Erdall
Madison (Maddi) Erdall is a senior at the University of California, Berkeley majoring in Environmental Science, German, and Hispanic Linguistics and minoring in Public Policy. She has experience researching the distribution of Bay area air pollutants and the historical ecology of Silicon Valley’s watersheds. She is interested in environmental policy and plans on furthering her academic career studying the mechanisms that connect renewable energy technology and poverty alleviation. While growing up in Minneapolis, she spent time living with her family in Barcelona and Bavaria. She speaks German, Spanish, and English and enjoys playing soccer, traveling, and supporting FC Barcelona and Liverpool FC.

Sarah Fendrich
Sarah is a rising junior at the University of Pennsylvania studying Cognitive Neuroscience, with minors in Statistics and German studies. Her primary interest is in the intersection of neuroscience and business. Sarah is involved in neuroimaging research regarding decision making and communication, and is the academic chair for the Wharton Neuroscience Initiative Student Society. Sarah is also passionate about writing; she is a writing tutor and an editor for The Daily Pennsylvanian, the PennScience Journal of Undergraduate Research, and the F-Word, a feminist literary magazine. She grew up in Westchester, New York, and enjoys hiking, soccer, music, and traveling. Sarah grew up in Westchester, New York, and enjoys hiking, soccer, music, and traveling. She grew up in Westchester, New York, and enjoys hiking, soccer, music, and traveling.

James King
James (Jeb) King is a junior at Harvard College studying Computer Science as well as German, which he can speak proficiently. He is Director of Studio Engineering at Harvard’s undergraduate radio station WHRB 95.3 FM, where he voices and produces commercial announcements and occasionally hosts Blues shows on weekend mornings. He is also a member of the Harvard Computer Society and Harvard Undergraduate Robotics Club. Jeb is from Indianapolis, Indiana, and likes learning foreign languages, world travel, and Ritter Sport chocolate. As an Eagle Scout, he enjoys backpacking and camping whenever he can get the chance.
James McIntyre

James (Jake) McIntyre is a rising junior at Harvard College, studying Statistics and Government. At Harvard, he plays for the varsity football team, and participates in multiple extracurricular groups, including the Harvard Political Review, Harvard Political Union, and Harvard Investment Association. He has a passion for German language and culture as well as for international exploration. In fact, he spent last summer studying abroad in Greece, where he engaged in interdisciplinary seminars combining historical, literary, philosophical, and linguistic approaches to cultural exchange. Jake grew up originally in Orlando, Florida, where he attended Bishop Moore Catholic High School.

Vineet Jagadeesan Nair

Vineet Jagadeesan Nair is a recent graduate of UC Berkeley, where he studied Mechanical Engineering and Economics with a minor in Electrical Engineering and Computer Sciences. He is passionate about renewables, energy efficiency, and sustainability. As an undergraduate, he undertook research spanning new solar cell materials, home energy monitoring for smart grids, and optimizing both printed and Li-ion batteries. In addition, he engaged in activities including environmental consulting, STEM outreach, peer tutoring, and student government. After completing the RuhrFellowship, Vineet will begin graduate school at the University of Cambridge, pursuing an MPhil in Energy Technologies as a Gates-Cambridge scholar.

Yueqi Ren

Yueqi Ren is an undergraduate student at the University of Pennsylvania, where she studies Bioengineering and works on neuroscience research. She has lived in China, Canada, and the U.S. and has attended eight schools over the course of her education. Despite moving around, Yueqi finds time to enjoy reading, music, drawing, and eating. She is also a fan of crime thrillers and romantic comedies. Her recent endeavors include looking into the Brothers Grimm and their fairy tales, learning about epilepsy research, finding out what it’s like to live without running water, and getting back into running.

Nicholas Ritter

Nicholas Ritter is a rising junior at Princeton University majoring in Economics with certificates in Statistics, Machine Learning, and Applied Mathematics. He is also interested in international relations and development economics, and directed a dinner series with professors specializing in development this academic year. Last summer, he worked for a nonprofit in China focused on environmental issues. At Princeton, Nicholas is on the debate team, for which he directed the largest student-run event on campus, and serves as a representative to the faculty committee on academics. He is from Summit, NJ. In his free time he plays soccer and writes poetry.
Participants (continued)

Samar Saad
Samar Saad graduated from the University of California, Berkeley, this past May with a degree in Civil Engineering. She will be pursuing a Master of Science in Structural Engineering, Mechanics, and Materials this fall at UC Berkeley. Her research interests include concrete materials, sustainable design, and post-disaster rehabilitation in third world countries. Samar grew up in Southern California and outside of her academic interests, enjoys making sculptures, tap dancing, and deep sea fishing. This past year she began to study Arabic and looks forward to continuing these studies in her future academic career.

Daniel Tokarz
Daniel Tokarz is currently a rising junior at Yale University where he is pursuing a double major in Mechanical Engineering and Applied Math. He is an active member of the Yale Political Union and sits on the executive board for the Yale Undergraduate Sports Analytics Group and Christian Union at Yale. He grew up in Palatine Illinois, a suburb of Chicago, where he graduated from Fremd High School in 2016. He has previously worked as a research assistant in Professor Eric Brown’s fluid dynamics lab. He is also an avid sports fan and enjoys following both the NFL and the NBA.

Eric Zhong
Eric Zhong is currently a rising junior at University of California, Berkeley studying Energy Engineering. In particular, he is interested in the mechanism features of propulsion systems within the energy field. The previous summers, Eric worked at NASA Jet Propulsion Laboratory assisting researchers in developing new holographic microscope technologies. Aside from energy, Eric is an avid sports fan. He is extremely excited for the upcoming World Cup and the opportunity to experience it in a true football nation. Eric grew up in the Los Angeles subrub, is fluent in Chinese, and enjoys exercising, eating, and traveling.

Hanming Zu
Hanming Zu is an electrical engineering student at University of Pennsylvania. He comes from Beijing, China, and speaks English, Chinese and German. His academic interests are robotics and analog circuit design. He was a research assistant at Architected Materials Lab in University of Pennsylvania, where he designed a new robot for paste material 3D printer and programmed corresponding firmware. He has experience in PCB design, Solidworks, C, Java and Python. He also worked as a College House Manager, with the responsibility of planning events and building community in student dormitory. He likes doing quantum mechanics for fun, playing tennis and travelling.
We would like to thank our partner companies and organizations for their support in providing the Ruhrfellows with the opportunity to gain valuable hands-on experience in a range of industries in Ruhr area.

We would also like to acknowledge the generous support of the Max Kade Foundation, the Wirtschaftsförderung Dortmund Max Kade Foundation, the Wirtschaftsförderung Dortmund.

Bayer is a Life Science company with a more than 150-year history and core competencies in the areas of health care and agriculture.

With our innovative products, we are contributing to finding solutions to some of the major challenges of our time. With life expectancy continuing to rise, we improve the major challenges of our time. With life expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve expectancy continuing to rise, we improve
The Max Kade Foundation, Inc. takes pride in participating and sponsoring various programs aimed at encouraging the exchange of academic ideas among universities and colleges both here in the United States and in German-speaking countries. In this ever-changing global society the fostering of cross-cultural understanding has become more important than ever before.

The Foundation supports initiatives which promote international understanding by sponsoring exchange programs between Germany, Austria and the United States such as post-doctoral research exchange programs, visiting faculty exchange programs, and exchange programs of undergraduate and graduate students both here and abroad.

www.maxkadefoundation.org www.ruhrverband.de  www.taros.de

The Ruhrverband - an operating water management company

The Ruhrverband is a non-profit oriented water management company based on public law. This applies to the operation of its reservoirs, ensuring water supply for 4.6 million people, as well as the sewage treatment for 60 communities in the whole catchment area of the River Ruhr. The River Ruhr and its tributaries are managed as an entity across political administrative units. This kind of river basin management creates a fair balance between different uses and interests surrounding the rivers and lakes.

This concept saves costs and - as postulated by the EU Water Framework Directive - promotes environmental protection as well as general public interests.

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SMS group is a global, leading partner for the metal industry. As a family-owned business headquartered in Germany, quality and innovation are in our DNA. We are committed to the success of our customers and strive to add value along the entire value chain of the global metal industry.

SMS group covers the product range from ironmaking to metallurgical plants, from rolling mills to strip processing lines, from tube mills to heat treatment technology – along with electrical and automation systems as well as service.

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Vaillant offers its customers worldwide eco-friendly, energy-saving heating and ventilation systems that make increasing use of renewable energies. Its product portfolio encompasses solar thermal and photovoltaic systems, heat pumps, ventilation systems for low-energy buildings, high-efficiency heating systems using fossil fuels, and intelligent controls.

In financial year 2017 the company, which has been family-owned since its foundation in 1874, achieved with more than 13,000 employees sales of about €2.36 billion.

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Partner (continued)

Taro, an independent, privately owned contract research organization, based in Duchess, Germany, has been serving the chemistry needs of pharmaceutical, chemical and biotech companies since its inception in 1989. More than 10,000 synthesis, research and process chemistry projects have successfully been delivered to the ever-growing global customer base.

Taro operates state-of-the-art laboratories employing a group of scientists 50% of whom hold graduate degrees and have extensive experience of supporting the diverse needs of its pharmaceutical, chemical and classical synthetic chemistry clients. It provides medicinal chemistry services to more than 240 industries of organic chemistry experience with over 60 years of active drug discovery experience from big pharma and biotechs. Our chemists help optimize creative a broad range of medicinal chemistry target classes.

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