

## **NCIP VaVal KnowledgeStor Case Study: Fulbright Scholarship examples, PhD and researcher levels**

Using the examples of “A”, “J1”, “J2” (researchers); “J3“, Martin Doškář (PhD candidates at the time)

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**Expected audiences:** Doctoral candidates and researchers who wish to conduct research with colleagues in the United States. High school teachers interested in Fulbright’s exchange programs in the US.

**Keywords:** Fulbright program, doctoral candidates, researchers, Fulbright, high school teachers



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## Who and why

### Who’s eligible at a glance

The Fulbright Czech Republic office offers several kinds of scholarships for students and scholars from Czech universities. The tables in this document summarize various Fulbright opportunities and who’s able to apply for them *in English*, since the Czech Fulbright office provides information in Czech only for CZ to US programs.

Note that most programs are for Czech citizens, but the Fulbright Schuman scholarship (administered by the Fulbright office in Belgium) is open to anyone from the EU.

The information provided in the tables in this document is provided for *informational purposes only*. Deadlines noted are for time of writing (October 2023). **Official questions, including about future deadlines, should be directly to the Fulbright Czech Republic office** and/or the contacts for certain opportunities.

The information provided here is informational in nature and intended to assist doctoral candidates and researchers in thinking about the appropriate opportunities that fit their needs. High school teacher opportunities are listed as well for the same purpose.

| Opportunity   | Who and what kind of work is eligible  |
|---|--|
| <p>Scholarship for postgraduate study for visiting research student, degree student, or non-degree student</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/">https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/</a></p> | <p>Study or research at Master or PhD level, all disciplines <i>except</i> medicine, MBA, LLM students</p> <p>For:</p> <ul style="list-style-type: none"> <li>• Work on independent project, such as PhD dissertation (visiting research student)</li> <li>• Completion of a US university degree (degree student, only first year is covered)</li> <li>• Study stay (non-degree student)</li> </ul> <p>Applicants cannot apply to another Fulbright category in a calendar year (i.e., they can only apply to one grant category per year).</p> <ul style="list-style-type: none"> <li>• Czech citizens only</li> <li>• Bachelor degree completed by application deadline.</li> <li>• Excellent command of English</li> <li>• Excellent academic record (i.e., grades and so on)</li> <li>• In the degree category, <a href="#">TOEFL</a> language test according to the host institution's requirements (e.g., for degree category applicants, at least 80 points). Visiting student researchers, must provide TOEFL scores only if required by the host institution.</li> <li>• In the degree and non-degree applicants, <a href="#">GRE General Test</a> scores.</li> <li>• For the visiting research category, an invitation from the US side expressing</li> </ul> |

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|   | <p>willingness to accept the student.</p> <ul style="list-style-type: none"> <li>• Applicants who have not yet: <ul style="list-style-type: none"> <li>◦ Studied at the university level in the US</li> <li>◦ Lived in the US for a long time.</li> </ul> </li> </ul>  |
| <p>Fulbright-Masaryk scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/</a></p>             | <ul style="list-style-type: none"> <li>• Long-term stays for Czech doctoral students, researchers, and university instructors in all disciplines except for clinical medicine</li> <li>• Excellent scholars active in civic and public activities within their institutions and/or communities <ul style="list-style-type: none"> <li>◦ Consult Fulbright office to see if you are qualified</li> </ul> </li> <li>• Czech citizens only</li> <li>• Excellent command of English</li> <li>• Applicants who have not yet worked or lived in the US for a long time.</li> <li>• Three categories: <ul style="list-style-type: none"> <li>◦ Doctoral student</li> <li>◦ Postdoctoral researcher (PhD granted no more than five years before application deadline)</li> <li>◦ Senior researcher (PhD more than five years ago)</li> </ul> </li> </ul> |
| <p>Researcher/instructor scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/">https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/</a></p> | <ul style="list-style-type: none"> <li>• Researchers and university instructors, in all disciplines except for clinical medicine, with PhD</li> <li>• May include Czech language/literature instructors with an invitation from a US institution or a general request from a US institution for such an instructor</li> <li>• Excellent command of English</li> <li>• Czech citizens only</li> <li>• Successful research and/or teaching track record</li> <li>• Invited from the US side</li> <li>• Applicants who have not yet worked or lived in the US for a long time.</li> </ul>   |
| <p>Professional scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/">https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/</a></p>              | <ul style="list-style-type: none"> <li>• Professional experts (PhD not required; at least Master degree and seven years of professional experience) in fields such as: art (including restoration and curation),</li> </ul>  |

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|  | <p>museum and gallery management, art collection management, architecture, urban planning, public administration/politics, creative writing, journalism</p> <ul style="list-style-type: none"> <li>○ Ask Fulbright if you qualify</li> <li>● Applicants who have not yet worked or lived in the US for a long time.</li> </ul>   |
| <p>Fulbright-Masaryk scholarship for the non-profit sector</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/">https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/</a></p>                        | <ul style="list-style-type: none"> <li>● Representatives of Czech non-profit organizations</li> <li>● Czech citizenship</li> <li>● Excellent command of English <ul style="list-style-type: none"> <li>○ TELP (Test of English Language Proficiency) exam on the day of interview or a valid TOEFL test (minimum 80 points in the iBT version)</li> </ul> </li> <li>● Bachelor degree</li> <li>● Two years of professional experience</li> <li>● Good management and organizational skills</li> <li>● Invitation from US non-profit or university</li> </ul> |
| <p>Fulbright Fellowship in scientific communication</p> <p><a href="https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/">https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/</a></p> | <ul style="list-style-type: none"> <li>● Researchers or journalists interested in studying scientific communication in the US <ul style="list-style-type: none"> <li>○ Contact Fulbright to see if you qualify</li> </ul> </li> <li>● Czech citizenship</li> <li>● Excellent command of English</li> <li>● Bachelor degree with relevant experience in science communication</li> <li>● Invitation from US institution</li> </ul>  |
| <p>American studies summer institute</p> <p><a href="https://www.fulbright.cz/stipendia/letni-institut-y-americky-ch-studii/">https://www.fulbright.cz/stipendia/letni-institut-y-americky-ch-studii/</a></p>                                      | <ul style="list-style-type: none"> <li>● For secondary school educators and administrators, download <a href="#">requirements and application</a> Word document</li> <li>● For scholars interested in deepening their knowledge of the US, download <a href="#">requirements and application</a> Word document</li> </ul>  |
| <p>Summer school (2023: US Institute on Civic Engagement, Michigan State University)</p> <p><a href="https://www.fulbright.cz/stipendia/letni-skola/">https://www.fulbright.cz/stipendia/letni-skola/</a></p>                                      | <ul style="list-style-type: none"> <li>● Undergraduate student leaders</li> <li>● 18-25 years of age</li> <li>● Full <a href="#">description of requirement</a> (Word document)</li> </ul>   |

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| <p>Fulbright-Shuman scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/</a></p>  | <ul style="list-style-type: none"> <li>• Open to all EU citizens (not just Czech citizens)</li> <li>• Focus on EU affairs/policy, or the US-EU transatlantic agenda to conduct research, or lecture on a topic that is relevant to US-EU relations, EU affairs/policy, or EU institutions and shows relevancy to at least two EU member states.</li> <li>• Grants for: <ul style="list-style-type: none"> <li>◦ <a href="#">Pre/doctoral students</a></li> <li>◦ <a href="#">Postdoctoral research and lecturing</a> (scholars)</li> <li>◦ <a href="#">Fulbright-NATO Security Studies Award</a></li> <li>◦ <a href="#">International educators</a></li> <li>◦ <a href="#">Innovation</a></li> </ul> </li> </ul>   |
| <p>Fulbright teaching excellence and achievement program</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/">https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/</a></p> | <ul style="list-style-type: none"> <li>• Secondary school teachers interested in media literacy and critical thinking <ul style="list-style-type: none"> <li>◦ Detailed <a href="#">list of requirements</a></li> </ul> </li> </ul>  |
| <p>Fulbright-Nara heritage science award</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/">https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/</a></p>   | <p>Math, science, engineering researchers interested in:</p> <ul style="list-style-type: none"> <li>• Sustainable environmental (temperature, humidity, light) management</li> <li>• Developing early mold detection systems</li> <li>• Polymer characterization and aging</li> </ul> <p>Disciplines (mainly, not exclusively):<br/>Preventative Preservation, Heritage/Conservation Science, Chemistry, Physics, Materials Science and Engineering, Microbiology, Statistics</p> <p>Areas of Interest:</p> <ul style="list-style-type: none"> <li>• Archival cultural heritage preservation and conservation</li> <li>• Applications of technology to complex issues in heritage preservation and risk management</li> <li>• Data analysis and visualization</li> </ul> |

## Why are there Fulbright scholarships?

Fulbright provides information interview on its official YouTube channel, <https://www.youtube.com/user/fulbrightprogram/playlists>.

The Fulbright motto, as listed on this channel, notes that the program is intended to foster international dialogue and understanding: “Connecting people. Connecting nations.”

According to Fulbright's official history pages (<https://fulbrightscholars.org/who-we-are/foundation-excellence>):

*The Fulbright Program was established by [the US] Congress in 1946 with an ambitious goal — to increase mutual understanding and support friendly and peaceful relations between the people of the United States and the people of other countries.*

*For more than 75 years, Fulbright alumni have made an impact in areas like public service, science and technology, public health, arts, education and the environment. They have taught in local schools, led nations, made groundbreaking discoveries, and advanced nearly every discipline and field in academic institutions around the world. We invite you to read a selection of alumni profiles to learn more about Fulbrighters from all backgrounds who have made noteworthy contributions to their fields. You can also see lists of notable Fulbrighters who have received Nobel Prizes, Pulitzer Prizes, MacArthur Fellowships, or have served as heads of state.*

*Today, the Fulbright Program awards approximately 8,000 merit-based grants every year to accomplished students, scholars, teachers, artists, and professionals of all backgrounds and fields.*

**VIP:** Reviewing Fulbright's official videos and learning more about the history of the program can be helpful in writing effective personal statements and in preparing properly for a possible interview.

The program is named after Senator J. William Fulbright, who proposed program legislation in 1946 ([https://en.wikipedia.org/wiki/J.\\_William\\_Fulbright#Establishment\\_of\\_Fulbright\\_program](https://en.wikipedia.org/wiki/J._William_Fulbright#Establishment_of_Fulbright_program)):

*The Fulbright Program's mission is to bring a little more knowledge, a little more reason, and a little more compassion into world affairs and thereby increase the chance that nations will learn at last to live in peace and friendship.<sup>[7]</sup>*

— Senator J. William Fulbright ([https://en.wikipedia.org/wiki/Fulbright\\_Program](https://en.wikipedia.org/wiki/Fulbright_Program))

# What

## What does the funding include?

An overview of what each scholarship provides follows in the table below. Again, consult the Fulbright Czech Republic office for details and questions.



| Opportunity   | Scholarship   |
|---|---|
| <p>Scholarship for postgraduate study for visiting research student, degree student, or non-degree student</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/">https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/</a></p> | <ul style="list-style-type: none"> <li>• Length: for 4-9 months, depending on the project and/or study program</li> <li>• Living expenses in the form of an allowance according to the average costs in the selected location</li> <li>• Round-trip flight ticket allowance</li> <li>• Basic health insurance arranged as part of the program; if the “host” institution requires the student to sign up for its own insurance, the grantee must pay this themselves</li> <li>• Tuition up to a maximum of US\$15,000 <i>only</i> for “degree” category students; if tuition is more, the grantee must secure additional funding for the rest (and, for those receiving funding for one year, they are responsible for their own tuition after one year).</li> <li>• Not intended for families, though there may be some funding for this based on the cost of living in the selected location</li> </ul> |
| <p>Fulbright-Masaryk scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/</a></p>   | <ul style="list-style-type: none"> <li>• Length: three to 10 months</li> <li>• Living expenses depend on category and according to the average costs in the selected location (e.g., PhD stipend approx. USD 2,000-3,000/month; postdoctoral fellows, USD 2,600-3,500/month, and senior researchers USD 3,100-4,000 in the senior category). <ul style="list-style-type: none"> <li>◦ If a particular institution has been selected, contact Fulbright, and they will give you a more exact estimate.</li> </ul> </li> <li>• Round-trip ticket allowance</li> <li>• Basic health insurance</li> <li>• Contribution for research and professional development</li> <li>• Small allowances for family members for living and travel expenses, but grantees provide health insurance and transport for their family members.</li> </ul>  |

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| <p>Researcher/instructor scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/">https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/</a></p>                                      | <ul style="list-style-type: none"> <li>• Length: 3-10 months</li> <li>• Benefits same as directly above, except for professional development</li> </ul>   |
| <p>Professional scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/">https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/</a></p>   | <ul style="list-style-type: none"> <li>• Length: 3-10 months</li> <li>• Living expenses depend on category and according to the average costs in the selected location; 2023-2024 estimate: ~USD 2,800-3,700/month</li> <li>• Basic health insurance</li> <li>• Contribution to research and further professional development</li> <li>• Small contributions for family members for travel expenses (one time) and living expenses (monthly). Grantees pay for health insurance for their family members</li> </ul> |
| <p>Fulbright-Masaryk scholarship for the non-profit sector</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/">https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/</a></p>                        | <ul style="list-style-type: none"> <li>• Length: 3-5 months</li> <li>• Living expenses of ~USD 2,000 per month (depends on location)</li> <li>• Basic health insurance</li> <li>• Round-trip ticket</li> <li>• Small contributions for family members. Grantees pay for health insurance for their family members</li> </ul>  |
| <p>Fulbright Fellowship in scientific communication</p> <p><a href="https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/">https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/</a></p> | <ul style="list-style-type: none"> <li>• Length: 3-5 months</li> <li>• Living expenses depend on category and according to the average costs in the selected location; 2023-2024 estimate: ~USD 2,600-3,500/month</li> <li>• Basic health insurance</li> <li>• Round-trip ticket</li> <li>• Small contributions for family members. Grantees pay for health insurance for their family members</li> </ul>   |
| <p>American studies summer institute</p> <p><a href="https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/">https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/</a></p>  | <ul style="list-style-type: none"> <li>• One month institutes (in 2023, in June)</li> <li>• International and visa travel</li> <li>• \$100 travel allowance</li> <li>• Basic health insurance</li> <li>• No family members</li> </ul>   |
| <p>Summer school (2023: US Institute on Civic Engagement, Michigan State University)</p> <p><a href="https://www.fulbright.cz/stipendia/letni-skola/">https://www.fulbright.cz/stipendia/letni-skola/</a></p>                                      | <ul style="list-style-type: none"> <li>• Length: 5 weeks (starting June 2023) <ul style="list-style-type: none"> <li>◦ 20 students from across Europe</li> <li>◦ Very competitive</li> </ul> </li> </ul>  |

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|   | <ul style="list-style-type: none"> <li>○ Travel, housing, basic health insurance</li> <li>○ No family members</li> </ul>  |
| <p>Fulbright-Shuman scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/</a></p>  | <p>See individual pages for information on the different programs:</p> <ul style="list-style-type: none"> <li>○ <a href="#">Pre/doctoral students</a></li> <li>○ <a href="#">Postdoctoral research and lecturing</a> (scholars)</li> <li>○ <a href="#">Fulbright-NATO Security Studies Award</a></li> <li>○ <a href="#">International educators</a></li> <li>○ <a href="#">Innovation</a></li> </ul>  |
| <p>Fulbright teaching excellence and achievement program</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/">https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/</a></p> | <ul style="list-style-type: none"> <li>● Length: 6 weeks</li> <li>● All costs of the stay covered, including. Accommodation, food, insurance, air ticket and visa for US</li> </ul>   |
| <p>Fulbright-Nara heritage science award</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/">https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/</a></p>                 | <ul style="list-style-type: none"> <li>● Length: 5-12 months</li> <li>● Heritage Science Research and Testing Lab in College Park, Maryland</li> <li>● J-1 visa sponsorship, J-1 visa compliant health benefits, and round-trip international travel to the United States.</li> <li>● A modest stipend to cover living expenses, settling in, and professional development allowances, and if applicable, a modest dependent allowance.</li> <li>● J visa compliant health insurance and travel costs for accompanying dependents are the responsibility of the participant.</li> <li>● Recipients of this award will be invited to participate in <a href="#">Fulbright Scholar Enrichment Activities</a> as well as Fulbright's <a href="#">Outreach Lecturing Fund</a>.</li> </ul> |

## What is submitted?

The following table includes a snapshot of what is typically in a proposal.

| Opportunity   | Proposal requirements snapshot   |
|---|--|
| <p>Scholarship for postgraduate study for visiting research student, degree student, or non-degree student</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/">https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/</a></p> | <ul style="list-style-type: none"> <li>• Study plan includes: <ul style="list-style-type: none"> <li>◦ Personal statement (2-3 pp. essay; “narrative statement describing how you have achieved your current goals”)</li> <li>◦ Description of study/research objectives (2-3 pp.; “a clear and detailed description of your study/research objectives and provide your reasons for wanting to pursue them.”)</li> </ul> </li> <li>• Signed consent for processing personal data <ul style="list-style-type: none"> <li>◦ <a href="#">Form</a> (at time this report was written)</li> </ul> </li> <li>• Visiting research category: Invitation from the host institution, including: <ul style="list-style-type: none"> <li>◦ Exact dates of stay</li> <li>◦ Possible amount of US institution fees (note: grantees in this category pay any fees from their own resources, so it is very important to have all conditions and fees defined in the invitation letter).</li> </ul> </li> <li>• Other categories: <ul style="list-style-type: none"> <li>◦ Invitation not required, but recommended</li> </ul> </li> </ul> |
| <p>Fulbright-Masaryk scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/</a></p>   | <ul style="list-style-type: none"> <li>• Same as researcher/instructor scholarship application in terms of contents <ul style="list-style-type: none"> <li>◦ Academic &amp; professional information</li> <li>◦ Project proposal <ul style="list-style-type: none"> <li>■ Title max. 700 characters</li> <li>■ Detailed project statement (3-5 pp.)</li> <li>■ Bibliography (1-3 pp.)</li> <li>■ If requested, course syllabus (up to 10 pages)</li> </ul> </li> </ul> </li> <li>• Description of research objectives</li> <li>• Invitation letter from host institution (<a href="#">details</a> of what letter should include,</li> </ul>  |

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|  | <p>in Czech)</p> <ul style="list-style-type: none"> <li>Signed consent for processing personal data <ul style="list-style-type: none"> <li><a href="#">Form</a> (at time this report was written)</li> </ul> </li> </ul>  |
| Researcher/instructor scholarship  | <p>Same as directly above.</p> <ul style="list-style-type: none"> <li><b>VIP:</b> Research/publishing track record is very important for this category, so scholars should include ResearchID or other online ID numbers on their CV</li> </ul>   |
| Professional scholarship<br><a href="https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/">https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/</a>                            | <ul style="list-style-type: none"> <li>Projects that typically would not be considered having academic research methods but which are “practical” in nature (e.g., exhibitions, art works, newspaper publishing)</li> <li>Excellent results in the field (documented by a portfolio of works, a professional CV, a list of publications and/or implemented projects)</li> <li>Signed consent for processing personal data <ul style="list-style-type: none"> <li><a href="#">Form</a> (at time this report was written)</li> </ul> </li> </ul>  |
| Fulbright-Masaryk scholarship for the non-profit sector<br><a href="https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/">https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/</a> | <ul style="list-style-type: none"> <li>Signed consent for processing personal data <ul style="list-style-type: none"> <li><a href="#">Form</a> (at time this report was written)</li> </ul> </li> <li>Project proposal should combine a research plan and a practical component (e.g., an internship at a non-profit organization) <ul style="list-style-type: none"> <li>Includes overview of literature used to create the proposal</li> <li>The quality of the submitted project, the relevance of the inviting organization, publication track record, and other professional and civic activities are decisive for obtaining a grant.</li> <li>The content of letters of recommendation is also considered.</li> </ul> </li> </ul> |
| Fulbright Fellowship in scientific communication   | <ul style="list-style-type: none"> <li>Signed consent for processing personal data</li> </ul>   |

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| <a href="https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/">https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/</a>                                   | <ul style="list-style-type: none"> <li>○ <a href="#">Form</a> (at time this report was written)</li> <li>● Project proposal</li> <li>● CV (including ResearcherID and other identifiers)</li> <li>● No English language proficiency requirements</li> </ul>  |
| <p>American studies summer institute</p> <p><a href="https://www.fulbright.cz/stipendia/letni-institut-y-americky-studii/">https://www.fulbright.cz/stipendia/letni-institut-y-americky-studii/</a></p>               | <ul style="list-style-type: none"> <li>● Not a research program</li> <li>● Participants must attend all lectures and organized activities and complete assigned readings.</li> <li>● Family members and/or friends may not accompany participants on any part of the program.</li> </ul>   |
| <p>Summer school (2023: US Institute on Civic Engagement, Michigan State University)</p> <p><a href="https://www.fulbright.cz/stipendia/letni-skola/">https://www.fulbright.cz/stipendia/letni-skola/</a></p>         | <ul style="list-style-type: none"> <li>● Not a research program</li> <li>● Participants must attend all lectures, participate in all required organized activities, and complete all assignments.</li> <li>● Family members and/or friends may not accompany or join participants for any part of the program.</li> <li>● English competency determined by interview performance</li> </ul>                            |
| <p>Fulbright-Shuman scholarship</p>   | <p>Research program; see individual pages for information on the different programs:</p> <ul style="list-style-type: none"> <li>○ <a href="#">Pre/doctoral students</a></li> <li>○ <a href="#">Postdoctoral research and lecturing</a> (scholars)</li> <li>○ <a href="#">Fulbright-NATO Security Studies Award</a></li> <li>○ <a href="#">International educators</a></li> <li>○ <a href="#">Innovation</a></li> </ul> |
| <p>Fulbright teaching excellence and achievement program</p>  | <ul style="list-style-type: none"> <li>● Not a research program</li> <li>● Study and activities program</li> </ul>   |
| <p>Fulbright-Nara heritage science award</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/">https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/</a></p> | <ul style="list-style-type: none"> <li>● Projects involved with: hands-on laboratory experience at <a href="#">The National Archives and Record Administration Heritage Science Research and Testing Lab</a>. Scientists work collaboratively with a variety of units within the archives and with other Washington, D.C.-area universities and government agency partners on a</li> </ul>                             |

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|  | <p>diverse range of projects that leverage their expertise in analytical chemistry, physics, computational modeling and materials science. The National Archives collection includes materials ranging from paper and parchment to photographs, modern film, magnetic audio/visual tapes and digital files. Increasing knowledge about the collections and how to reduce the risks of damage and loss are the inspiration for research projects.</p> <ul style="list-style-type: none"> <li>• Biographical Information</li> <li>• Academic &amp; Professional background information</li> <li>• Curriculum Vitae</li> <li>• English Language Skills Self-Assessment</li> <li>• Project Proposal (3-5 page essay)</li> <li>• Bibliography (1-3 pages of references that are relevant to the proposed research)</li> <li>• Letter of Support must be included from the applicant's Home Institution</li> <li>• (3) Letters of Recommendation</li> </ul> |
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## Where/How

### Official instructions

This table provides links to official application forms and instructions.

| Opportunity   | Application instructions   |
|---|--|
| <p>Scholarship for postgraduate study for visiting research student, degree student, or non-degree student</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/">https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/</a></p> | <ul style="list-style-type: none"> <li>• Electronic form filled out online (2023-2024 form: <a href="https://apply.iie.org/apply/?sr=d07f95d4-4d54-4e73-bcbd-539b96f9ac0b">https://apply.iie.org/apply/?sr=d07f95d4-4d54-4e73-bcbd-539b96f9ac0b</a>) <ul style="list-style-type: none"> <li>○ Create personal account online first that you can return to later</li> <li>○ No diacritics</li> <li>○ Contact Fulbright staff if any questions (recommended)</li> <li>○ <b>VIP:</b> <a href="#">Instructions in English</a></li> </ul> </li> </ul> |

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|  | <p>Must include (in the system, or some items can be sent by email/mail):</p> <ul style="list-style-type: none"> <li>• Copy of diploma and transcripts from all university-level institutions attended (including for non-completed studies); upload to the official system (preferred) or can be sent by email/postal mail</li> <li>• Professional CV including contact address, email, and phone. In official application or sent by email.</li> <li>• Three letters of recommendation; part of official application (online Supplemental Forms section), ideally inserted by the recommenders or sent in a sealed envelope to the Fulbright Commission. Applicant must guarantee they have not seen the contents of the recommendation letters.</li> <li>• TOEFL score (required for degree applications, others optional); results sent directly to Fulbright Commission/Institute of International Education (IIE), codes 9851 and 2326, not the institution where the applicant wishes to study. Results must be received by Fulbright and IIE by the application deadline (if Sept. 1 deadline, latest TOEFL test by July)</li> <li>• For degree and non-degree applicants, GRE scores; results sent directly to Fulbright Commission/Institute of International Education (IIE), codes 0036 and R2326, not the institution where the applicant wishes to study. Results must be received by Fulbright and IIE by the application deadline (if Sept. 1 deadline, latest GRE test by July, if not earlier) <ul style="list-style-type: none"> <li>○ Degree and non-degree applicants must also choose three possible universities, with the final choice made by the IIE.</li> </ul> </li> <li>• For visiting research applicants, invitation from the US institution</li> <li>• If prior studies in US, transcript</li> </ul> |
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|   | <p>release form (ask Fulbright about this)</p> <ul style="list-style-type: none"> <li>• If selected, Medical Release Form</li> </ul>   |
| <p>Fulbright-Masaryk scholarship<br/> <a href="https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/</a></p>                           | <ul style="list-style-type: none"> <li>• <a href="#">Form</a> filled out online (electronic application only) <ul style="list-style-type: none"> <li>○ Create personal account online first that you can return to later</li> <li>○ No diacritics</li> <li>○ Contact Fulbright staff if any questions (recommended)</li> <li>○ <b>VIP:</b> <a href="#">Instructions in English</a> (this document includes all details for this scholarship as well as the researcher/instructor scholarship)</li> </ul> </li> </ul>   |
| <p>Researcher/instructor scholarship<br/> <a href="https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/">https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/</a></p>               | <p>Same as directly above (i.e., same online form and instructions).</p>   |
| <p>Professional scholarship<br/> <a href="https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/">https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/</a></p>                            | <p>Same as directly above (i.e., same online form and instructions).</p>   |
| <p>Fulbright-Masaryk scholarship for the non-profit sector<br/> <a href="https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/">https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/</a></p> | <ul style="list-style-type: none"> <li>• First round: Fill out the <a href="#">registration form</a> and send CV to: <a href="mailto:zc.thgirbluf@avocnames">zc.thgirbluf@avocnames</a>. Pre-selections typically by December of the year. Successful first round applicants fill out an online application with all the necessary details by December 15.</li> <li>• Second round: Complete online form as per scholars/lecturers, noting in point 3 ("Special award name" that you are applying for the Fulbright-Masaryk scholarship for NGOs. <ul style="list-style-type: none"> <li>○ <a href="#">Online form</a></li> <li>○ <b>VIP:</b> <a href="#">Instructions</a> in English</li> </ul> </li> </ul> |
| <p>Fulbright Fellowship in scientific communication</p>   | <ul style="list-style-type: none"> <li>• Complete online form as per scholars/lecturers</li> </ul>   |

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| <a href="https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/">https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/</a>   | <ul style="list-style-type: none"> <li>○ <a href="#">Online form</a></li> <li>○ <b>VIP:</b> <a href="#">Instructions</a> in English</li> <li>○ In the “Country Information” section, select the appropriate Communication in Science scholarship from the Award information menu</li> </ul>   |
| <p>American studies summer institute</p> <p><a href="https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/">https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/</a></p>   | <ul style="list-style-type: none"> <li>● For secondary school educators and administrators, download <b>VIP</b> <a href="#">requirements and application</a> Word document</li> <li>● For scholars interested in deepening their knowledge of the US, download <b>VIP</b> <a href="#">requirements and application</a> Word document</li> </ul>   |
| <p>Summer school (2023: US Institute on Civic Engagement, Michigan State University)</p> <p><a href="https://www.fulbright.cz/stipendia/letni-skola/">https://www.fulbright.cz/stipendia/letni-skola/</a></p>   | <ul style="list-style-type: none"> <li>● Complete <a href="#">application form</a></li> </ul>   |
| <p>Fulbright-Shuman scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/</a></p>  | <p>See individual pages for information on the different programs:</p> <ul style="list-style-type: none"> <li>○ <a href="#">Pre/doctoral students</a></li> <li>○ <a href="#">Postdoctoral research and lecturing</a> (scholars)</li> <li>○ <a href="#">Fulbright-NATO Security Studies Award</a></li> <li>○ <a href="#">International educators</a></li> <li>○ <a href="#">Innovation</a></li> </ul>  |
| <p>Fulbright teaching excellence and achievement program</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/">https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/</a></p> | <ul style="list-style-type: none"> <li>● Spring 2023 deadline; monitor Fulbright pages</li> <li>● Travel in the next calendar year, either Jan-Mar or Sept-Oct.</li> <li>● Application form at: <a href="https://fulbright.irex.org/Account/Login?ReturnUrl=%2F">https://fulbright.irex.org/Account/Login?ReturnUrl=%2F</a> (NOTE: this is the form for 2022 and wait for 2023 announcement) <ul style="list-style-type: none"> <li>○ <b>VIP:</b> <a href="#">Instructions</a> for form</li> </ul> </li> <li>● First round: interviews by Fulbright committee</li> <li>● Second round: interviews by The Fulbright Foreign Scholarship Board</li> </ul> |
| <p>Fulbright-Nara heritage science award</p>  | <ul style="list-style-type: none"> <li>● Fill out application; link at: <a href="https://fulbrightscholars.org/fulbrightna">https://fulbrightscholars.org/fulbrightna</a></li> </ul>  |

<https://www.fulbright.cz/stipendia/fulbright-nar-a-heritage-science-award/>

[tionalarchives](#)

## When

### Deadlines and announcements

Deadlines listed are those noted by Fulbright at the time this document was written (October 2023). Consult the Fulbright pages themselves for future deadlines and announcements.

| Opportunity   | Deadlines   |
|---|---|
| <p>Scholarship for postgraduate study for visiting research student, degree student, or non-degree student</p> <p><a href="https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/">https://www.fulbright.cz/stipendia/stipendium-pro-postgradualni-studium/</a></p> | <ul style="list-style-type: none"> <li>For all categories: September 1 for studies starting the next year, with invitations to interview round made by ~Sept. 14 (in 2022)</li> <li>Visiting researchers can also apply by February 1, with invitations to interview round by mid-February/early March.</li> <li>Interviews are by a selection committee.</li> <li>Success rates: ~3 in 10 (total Fulbright awards for all categories is usually around 40, per the Fulbright Czech Republic pages)</li> <li>For those selected in September; Orientation in June the following year, with departure typically in August</li> </ul> |
| <p>Fulbright-Masaryk scholarship</p> <p><a href="https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-masarykovo-stipendium/</a></p>   | <ul style="list-style-type: none"> <li>Deadline Nov. 1 (for stays the next calendar year)</li> <li>3-round selection process. <ul style="list-style-type: none"> <li>1: Basic screening</li> <li>2: Assessment by two independent experts, one of whom is from outside CZ</li> <li>3: In-person interview by selection committee</li> </ul> </li> <li>Success rates: ~3 in 10 (total Fulbright awards for all categories is usually around 40, per the Fulbright Czech Republic pages)</li> </ul>   |
| <p>Researcher/instructor scholarship</p>  | <ul style="list-style-type: none"> <li>Same as directly above.</li> </ul>   |

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| <a href="https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/">https://www.fulbright.cz/stipendia/stipendium-pro-vedce-a-prednasejici/</a>   | <ul style="list-style-type: none"> <li>For 2023-2024, decisions will be made in mid-February (i.e., there is some time lag for final selection)</li> </ul>   |
| Professional scholarship<br><a href="https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/">https://www.fulbright.cz/stipendia/stipendium-pro-profesni-odborniky/</a>   | <ul style="list-style-type: none"> <li>Same as Masaryk and researcher/instructor scholarships above.</li> </ul>  |
| Fulbright-Masaryk scholarship for the non-profit sector<br><a href="https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/">https://www.fulbright.cz/stipendia/stipendium-pro-neziskovy-sektor/</a>                        | <ul style="list-style-type: none"> <li>Deadline: November 20 (in 2022) for round one, with full application submitted by December 15</li> <li>Interviews with the Fulbright selection committee typically take place the last week of January</li> </ul>   |
| Fulbright Fellowship in scientific communication<br><a href="https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/">https://www.fulbright.cz/stipendia/fulbrightovo-stipendium-pro-komunikaci-ve-vede/</a> | <ul style="list-style-type: none"> <li>Deadline for starting August 2023-May 2024: February 1, 2023</li> <li>Interviews with committee in mid-March 2023</li> </ul>  |
| American studies summer institute<br><a href="https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/">https://www.fulbright.cz/stipendia/letni-institut-y-americkych-studii/</a>  | <ul style="list-style-type: none"> <li>Deadline: January 10, 2023, with institutes in June 2023 at selected US institutions</li> <li>Fulbright Commission can nominate one applicant per category per year</li> <li>Institutes for <a href="#">educators and administrators</a> <ul style="list-style-type: none"> <li>Very competitive: 60 places from applicants around the world (3 institutes with groups of 20 each)</li> <li>Institute 1: US studies with an emphasis on democracy and citizenship</li> <li>Institute 2: the ways in which individual rights and social obligations have evolved through American history</li> <li>Institute 3 (for administrators): sociocultural understanding, equitable learning communities, and diversity and inclusion in U.S. education and society</li> </ul> </li> </ul> |

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|  | <ul style="list-style-type: none"> <li>• Institute for <a href="#">scholars</a> <ul style="list-style-type: none"> <li>◦ Very competitive</li> </ul> </li> </ul> |
| Summer school (2023: US Institute on Civic Engagement, Michigan State University)<br><a href="https://www.fulbright.cz/stipendia/letni-skola/">https://www.fulbright.cz/stipendia/letni-skola/</a>   | <ul style="list-style-type: none"> <li>• Deadline: December 15, 2022</li> </ul>  |
| Fulbright-Shuman scholarship<br><a href="https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/">https://www.fulbright.cz/stipendia/fulbright-schumanovo-stipendium/</a>  | <ul style="list-style-type: none"> <li>• Deadline: December 1, 2022</li> </ul>   |
| Fulbright teaching excellence and achievement program<br><a href="https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/">https://www.fulbright.cz/stipendia/fulbright-teaching-excellence-and-achievement-program/</a> | <ul style="list-style-type: none"> <li>• Deadline TBA (spring 2023)</li> </ul>   |
| Fulbright-Nara heritage science award<br><a href="https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/">https://www.fulbright.cz/stipendia/fulbright-nara-heritage-science-award/</a>   | <ul style="list-style-type: none"> <li>• Deadline for 2023 was October 15; monitor Fulbright pages for future announcements.</li> </ul>                          |

## Case studies

In the next sections, brief summaries of work with actual researchers and students are listed.

One researcher (a doctoral candidate at the time he received his Fulbright) generously provided samples of application components; other case study participants are not identified.

### Case study details: “A”, tenured researcher (funded)

#### Summary of researcher profile

- Tenure-track assistant professor (since then, associate professor)
- Active instructor
- US invitation from prestigious institution in Boston, MA
- Funded; grant delayed by one year due to COVID

#### Process

October 2019

- In-person meeting to discuss application (research proposal statement)

- Editorial advice for research proposal statement (performed in MSWord)
- No mock interview in this case; common interview questions, etc., provided via email

## January 2020

- Researcher called to interview
- Researcher notified they received funding
- Celebratory party held

As the researcher prepared for the US (initially in 2020, then in 2021), SK answered some basic questions about life in the US and also tried to put the researcher into contact with colleagues living in Boston.

## Case study details: “J1”, tenured researcher (not funded)

### Summary of researcher profile

- Tenure-track assistant professor (since then, associate professor)
- Active instructor
- US invitation from prestigious institution in Boston, MA
- Reached interview stage but not funded

## Process

### October 2019

- J reached out to me for English lessons, preparing for the Fulbright application and interviewing process.
- In-person meeting to discuss process, with regular weekly meetings
- Editorial advice for CV and research proposal (performed in MS Word)

### January 2020

- Interview preparations with common interview questions
- We reviewed materials and sample questions compiled from websites such as:
  - <https://www.fulbright.fi/asla-fulbright-graduate-grants/how-prepare-interview>
  - <https://funding.yale.edu/applying/interviewing-external-fellowships>
- No mock interview in this case
- Researcher called to interview, but not funded

## Case study details: “J2” (researcher, not funded)

### Summary of researcher profile

- Active researcher with prior international experience in English-speaking countries
- Found institution they'd like to work based on personal preferences; institute said yes

### Process

Work with this researcher focused on the interview itself, rather than applications. A mock interview was conducted.

#### Early 2018

- Researcher contacted SK for interview practice
- Live interview practice session (mock interview) with attendees was scheduled by SK and took place
  - Researcher received feedback on improving their possible interview responses from colleagues
- During the interview, the researcher experienced a strange interview line of inquiry (documented below). This was later reported to Fulbright.
- Researcher did not receive funding.

- Right after the introduction of the committee members, the second surprise comes as I am asked the first question:
  - [REDACTED] (committee chair): are you married? (starting to feel uncomfortable)
    - Me: No
  - [REDACTED]: You should get married (getting staggered by an impertinent advice on such a sensitive subject from someone I met a while ago)
    - Me: Why so?
  - [REDACTED]: In order to get J2 visa for your partner, otherwise she can not accompany you to the U.S.
    - Me: Are you serious?
  - [REDACTED]: Yes! (Inviting other committee members to admit), all nodding their heads
    - Me: Oh, OK, in that case it is probably senseless for me to be here while laughing spasmodically
  - [REDACTED]: OK let's continue (feeling a disrespect)

*Screenshot: Transcript provided by researcher of strange link of interview inquiry.*

## Case study details: “J3” (PhD candidate at the time; not funded)

### Summary of researcher profile

- PhD candidate, architecture
- Reached out to SK directly following NTK-CTU in Prague Scientific Writing course

### Process

Work with this doctoral candidate was rushed, since they delivered materials to SK at the last minute.

This is not an ideal process, and SK does not know if the student actually finished their application and/or what results they may have had, though we did meet in person at another point to discuss a conference they were planning.

#### October 2016

- “Cold” email from student asking for editorial commentary
- SK responded she could review

#### November 2016

- Student apologized for not having sent materials earlier, but asked if I could still review that same day
- SK responded she could; due to the materials being poorly written, review took two hours longer than anticipated, but SK still sent the editorial suggestions back the same day
- Candidate said thank you, acknowledging they had done everything at the last minute, and asked for an in-person meeting about another topic.

## Case study details: Martin Doškář; doctoral candidate at the time (funded)

### Summary of researcher profile

- PhD candidate at the time (since then, received doctorate and assistant professorship on tenure track; <https://www.researchgate.net/profile/Martin-Doskar>)
- US invitation from university in California



## Process

Work with Martin followed a more ideal process, with enough time on both sides for ensuring high-quality application materials.

### July 2015

- Martin reached out to me on email, after a previous seminar at NTK and having seen that I was a Fulbright Scholar in the past on LinkedIn
- Martin placed his draft materials on Google Drive, where I could make editorial suggestions. He put everything he wanted me to review in one document, to make my review easier.
- I provided suggestions and Martin reviewed these, integrating what he wanted to change, offering to review final versions one more time.

### August 2015

Martin scheduled a meeting with the Fulbright coordinator to make sure all was well with his proposal. He had overlooked the language competency requirement earlier in the application process, and the Fulbright office recommended that he have an additional language certification, in addition to TOEFL, to meet the language competency requirements. Martin recommends that future applications, well in advance, make sure they plan early for meeting the language requirements:

I tried to contact English lecturers at our faculty and school, but both are unavailable till the end of the week. Unfortunately, deadline for the application is the 1st September.

*Today, I met the **Fulbright** coordinator and she told me that the requirements are not so strict and that it should be enough if I contact any native speaker that would meet me in person to carry out the evaluation. Your name crossed my mind. With certain benevolence, I think you fit in the first category -- A director of courses in English at a binational center.*

*I am really sorry for bothering you but would you mind meeting me for the evaluation sometime this week? Or if you know someone else meeting the aforementioned requirements that would be so kind to perform the assessment, I would greatly appreciate any contact as well.*

*It should be relatively quick assessment, on the other hand it should cover speaking, writing and reading part. I recon it could take about an hour. The report form with additional details is attached to this e-mail.*

I provided this certification, which is included in the samples of materials section below.

September 26, 2015

Martin informed me that he was selected as one of five Fulbright grantees for the following year, extending his thanks.

## Samples of materials

Below are three samples of materials the student submitted to Fulbright, provided with approval from him.

### Sample 1: Research objectives (statement)

My PhD research involves the application of the Wang tiling concept to the modeling of composite materials, in which one of the essential concerns is finding a suitable representation of their microstructures. Unlike materials with a regular microstructure, a single periodic representation, the Periodic Unit Cell (PUC), cannot capture all the necessary information about material heterogeneity. In my previous academic research, I have shown that the tiling concept is a natural generalization to the widely accepted PUC concept because it brings an unparalleled diversity into the compression of microstructural information while reducing spurious periodic spatial artefacts.

In particular, instead of a single cell, a microstructure is compressed within a set of Wang tiles which are designed to match, in the geometrical sense, at the corresponding edges. The concept resembles a jigsaw puzzle, except that there are only a limited number of types of puzzle pieces and infinitely many copies of each type. Because of this, a microstructure realization of arbitrary size can be assembled. Moreover, every assembly process results in different microstructural patterns that resemble the reference materials in a statistical sense.

The ability to produce stochastic microstructure realizations of arbitrary size almost instantaneously makes the concept appealing for all applications that require multiple microstructure realizations to be produced. A classical example is a numerical homogenization and determination of the relevant size of a Representative Volume Element (RVE). In my and my coworkers' work, we have shown that the regular structure inherent to the tiling enables employment of the Partition theorem in order to obtain confidence intervals on the upper and lower estimates for the desired overall properties. Moreover, the repeating patterns inherent to Wang tiling also allows us to incorporate basic ideas of domain decomposition methods to alleviate computational costs inherent to homogenization.

As for the optimal design of new materials, there is a need to incorporate the detailed knowledge of material microstructures into models of consumer products or their parts. Detailed discretizations involving all microstructural details are not an option, since these are usually beyond the capabilities of even the most powerful supercomputers. However, if the characteristic length of the investigated microstructure is by orders of magnitude less than the characteristic length of the macro-scale model, homogenization is a way to derive the effective parameters entering the macro-scale constitutive models. It results, though, in a loss of information on micro-scale behavior that enters the macro-scale only through certain averages.

In my dissertation project, I wish to focus on situations in which the separation of scales is not valid or the homogenization-related information loss is not desirable. Since the Finite Element Method (FEM) is the most widely-used technique for solving partial differential equations numerically, recognized for its versatility and supported with solid theoretical background, I plan to consider its extension by enhancing the approximation properties of FEM spaces. The common enrichment functions either rely on analytical solutions (e.g. a displacement field near a crack tip) or are based on descriptions of microstructures by means of level set functions. In the approach I am investigating, the approximation space is directly supplemented with fluctuation displacement fields assembled from pre-calculated responses of tiles, in analogy to the way the microstructure geometry is treated. This accounts for micro-scale details without the need for full resolution at the macro-scale.

Building on my preliminary 1D tests, the main objective of the proposed visit is to extend the idea to 2D and 3D, and to investigate the influence of boundary conditions prescribed during the pre-calculation on the accuracy of the approximate solution. The project will start with linear materials

models. A way to proceed beyond this limit is to identify the onset of nonlinearities and switch adaptively to a fully resolved model in critical regions during the extended FE simulations. Benefiting from the broad experience of the potential supervisor in modeling of nonlinear dynamic problems, model order reduction, and FE modeling in general, we will establish an alternative way of treating nonlinear behavior for tile-based representations, which is the second objective of my research visit.

Obviously, the actual composition of microstructure varies product to product. Assessing an overall performance number of simulations using different realizations of microstructures must be performed, which calls for efficient solvers. My future research plans involve optimizing simultaneous morphology of tiles and their assembly plans to maximize product performance, which further emphasizes the need for an advanced numerical technique. Within the MURlab project, my colleagues and I will validate project outcomes on specimens produced by 3D printing.

## Sample 2: Personal statement (essay)

Always being attracted to Mathematics and Physics, I hesitated between studies at the School of Mathematics and Physics at Charles University in Prague and the Czech Technical University in Prague (CTU) after finishing high school. Eventually, I chose the School of Civil Engineering at CTU partly influenced by my family's background in engineering, which made me aware of the possibilities of having an engineering degree.

Initially, I enrolled in the Architecture and Building Engineering study program with the vision of combining technical skills with a creative approach. After the first semester, however, I realized that a subjective perception of architecture and strong influence of ongoing trends does not fit my personal ethos and that I intuitively incline towards technical subjects. I therefore changed the focus of my studies and was offered a chance to collaborate with the Department of Mechanics in 2009.

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This change allowed me to focus on Mathematics and Physics and introduced me to the study of the first computations of dislocation movements in crystal lattices and to the prediction of effective thermal conductivity of nanocomposite materials based on closed form solutions. In 2012, I started exploring alternative approaches for modeling heterogeneous materials, including those based on the jigsaw puzzle-like concept, described in detail above in the Research Objectives. Although the primary motivation arose from a need to efficiently synthesize stress and strain fields in heterogeneous microstructures, it turned out that compressing and synthesizing the microstructural geometry itself is a better starting point, since it was easier to communicate the idea to the Computational Mechanics and Materials Engineering community. This focus allowed me to write my bachelor thesis on designing morphologies of Wang tiles to resemble the input microstructures quantified by means of spatial statistics. My master thesis allowed me to more deeply investigate several design procedures originally developed in the Computer Graphics community, and resulted in modifications to suit Materials Engineering needs. The thesis also covered an application of the tiling concept in homogenization model of Alporas aluminum foam. I was awarded the Josef Hlavka Award for the best students and graduates of Czech public universities by the Josef, Marie and Zdenka Hlavka Foundation.


In 2014, I was accepted into the PhD program in Physical and Materials Engineering at the School of Civil Engineering, CTU in Prague, where I am exploring applications of the tiling concept with two ultimate goals. The first one is creation of an online database of compressed microstructures and their discretization for numerical models. The second is the development of efficient numerical methods that would incorporate microstructural information into macro-scale analyses without restrictions for scale separation. I also take courses at the School of Mathematics and Physics at Charles University in Prague related to my current research activities; i.e., numerical methods and thermodynamics.

Regarding my experience abroad, I took a week-long intensive course on Finite Element Method at the Delft University of Technology in March 2012. This was followed by a semester as an exchange student at the Heriot-Watt University in Edinburgh with the European Commission's Erasmus program (winter semester 2012). In January 2015, I had the opportunity to visit Prof. Miller (Carleton University in Ottawa) and his research group. For two weeks, we discussed the potential of the tiling concept for atomistic simulations of amorphous metals. The visit turned into a vital ongoing cooperation. In addition, I have actively attended six international conferences since 2013 and I was awarded with the best PhD student paper prize at the ACME 2014 Conference in Exeter, UK.

I am certain that the opportunity to collaborate with other specialists on the Finite Element Method in the United States will lead to an unbiased insight into the problem and accelerate the development of the aforementioned in-house microstructure-informed solver. On a personal level, based on my previous overseas experience and that of my colleagues, I have high expectations about the influence of the North American academic environment, with its high-performance oriented mindset, which would help me learn how to develop, communicate and lead projects that could result in real-life applications. Last but not least, the Fulbright experience would give me a competitive advantage in pursuing my future research agenda after defending my PhD; namely, for future research project proposals or postdoc position applications.



Sample 3: English certification form (TOEFL taken in July that year, paid for by Fulbright, but the certification was an additional requirement for this student that year)

|   |   |   |   |  |                                      |                               |                                   |  |                                       |  |                    |  |                       |  |                       |
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|    |   |   |   |  |                                      |                               |                                   |  |                                       |  |                    |  |                       |  |                       |
| NAME OF APPLICANT: <u>Martin Doškár</u>   | COUNTRY: <u>Czech Republic</u>  |   |   |  |                                      |                               |                                   |  |                                       |  |                    |  |                       |  |                       |
| REPORT ON PROFICIENCY IN ENGLISH  |   |   |   |  |                                      |                               |                                   |  |                                       |  |                    |  |                       |  |                       |
| <p><b>THIS FORM SHOULD BE COMPLETED BY ONE OF THE FOLLOWING:</b></p> <p><input checked="" type="checkbox"/> A director of courses in English at a binational center</p> <p><input type="checkbox"/> A professor of English whose native language is English</p> <p><input type="checkbox"/> An official of the U.S. Embassy or Fulbright Commission</p> <p><b>PURPOSE OF REPORT:</b> The person named is applying for a grant to study at a college, university or other institution of higher learning in the United States. Consideration must be given to each applicant's English proficiency. This report form seeks a reliable evaluation of the applicant's present command of English, including comments as to additional language training which appears necessary.</p> <p>Please indicate briefly how the evaluation was conducted. Mention which test was used and, <b>most importantly</b>, the scores achieved.</p> <p><b>METHOD:</b> <u>Cambridge English</u>      <b>TEST:</b> <u>Speaking &amp; Reading Proficiency Writing</u></p> <p>1. ABILITY: Is the applicant's mother tongue English? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Mark with an "X" the appropriate boxes to indicate your opinion of the applicant's present ability in English from the standpoint of the language proficiency usually needed for effective pursuit of studies at a college or university in the United States.</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>(a) <u>Speaks English</u></p> <p><input checked="" type="checkbox"/> Fluently and colloquially</p> <p><input type="checkbox"/> With ease but with occasional errors</p> <p><input type="checkbox"/> Haltingly with frequent errors</p> <p><input type="checkbox"/> No ability</p> <p>(b) <u>Understands Spoken English</u></p> <p><input checked="" type="checkbox"/> With good comprehension</p> <p><input type="checkbox"/> With some hesitation</p> <p><input type="checkbox"/> Simple vocabulary only</p> <p><input type="checkbox"/> Not at all</p> </td> <td style="width: 50%; vertical-align: top;"> <p>(c) <u>Understands Written English</u> (Text Used: <u>Cambridge</u>)</p> <p><input checked="" type="checkbox"/> Comprehends advanced level material</p> <p><input type="checkbox"/> Comprehends intermediate level material</p> <p><input type="checkbox"/> Comprehends elementary level material</p> <p><input type="checkbox"/> No ability</p> <p>(d) <u>Expresses Thoughts in Written English</u></p> <p><input checked="" type="checkbox"/> With fluency and facility</p> <p><input type="checkbox"/> With ease but ungrammatically</p> <p><input type="checkbox"/> On an elementary level only</p> <p><input type="checkbox"/> No ability</p> </td> </tr> </table> <p>2. ADDITIONAL TRAINING</p> <p>(a) In your opinion, how much additional English training does this student require to undertake full time academic study in U.S. institutions of higher learning?</p> <p><input checked="" type="checkbox"/> None    <input type="checkbox"/> Number of Weeks _____    <input type="checkbox"/> Number of Months _____</p> <p>(b) What English language study is the candidate planning to take before coming to the U.S.?</p> <p><u>The candidate is planning to do additional work in scientific writing prior to departure for the U.S., including a formal class on the topic.</u></p> <p>3. COMMENTS</p> <p><u>Martin is able to comprehend English easily, from the conversational to the advanced level. He has a wide range of vocabulary and can explain complex scientific matters—even in areas previously unfamiliar to him.</u></p> |   | <p>(a) <u>Speaks English</u></p> <p><input checked="" type="checkbox"/> Fluently and colloquially</p> <p><input type="checkbox"/> With ease but with occasional errors</p> <p><input type="checkbox"/> Haltingly with frequent errors</p> <p><input type="checkbox"/> No ability</p> <p>(b) <u>Understands Spoken English</u></p> <p><input checked="" type="checkbox"/> With good comprehension</p> <p><input type="checkbox"/> With some hesitation</p> <p><input type="checkbox"/> Simple vocabulary only</p> <p><input type="checkbox"/> Not at all</p> | <p>(c) <u>Understands Written English</u> (Text Used: <u>Cambridge</u>)</p> <p><input checked="" type="checkbox"/> Comprehends advanced level material</p> <p><input type="checkbox"/> Comprehends intermediate level material</p> <p><input type="checkbox"/> Comprehends elementary level material</p> <p><input type="checkbox"/> No ability</p> <p>(d) <u>Expresses Thoughts in Written English</u></p> <p><input checked="" type="checkbox"/> With fluency and facility</p> <p><input type="checkbox"/> With ease but ungrammatically</p> <p><input type="checkbox"/> On an elementary level only</p> <p><input type="checkbox"/> No ability</p> |  |                                      |                               |                                   |  |                                       |  |                    |  |                       |  |                       |
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| <p><b>EVALUATION AND REPORT PREPARED BY:</b></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">NAME (print): <u>Mrs. Stephanie Krueger</u></td> <td style="width: 50%;">ADDRESS: <b>NTK + Humboldt University,</b></td> </tr> <tr> <td>TITLE: <u>Head Office of Specialized Academic Services</u></td> <td><b>50°8'14.083"N, 14°23'26.365"E</b></td> </tr> <tr> <td>SIGNATURE: <u>Stephanie K</u></td> <td><b>Národní technická knihovna</b></td> </tr> <tr> <td></td> <td><b>National Library of Technology</b></td> </tr> <tr> <td></td> <td><b>Technická 6</b></td> </tr> <tr> <td></td> <td><b>160 80 Praha 6</b></td> </tr> <tr> <td></td> <td><b>Czech Republic</b></td> </tr> </table> <p>DATE: <u>28 Aug 2015</u></p>   |   | NAME (print): <u>Mrs. Stephanie Krueger</u>   | ADDRESS: <b>NTK + Humboldt University,</b>  | TITLE: <u>Head Office of Specialized Academic Services</u> | <b>50°8'14.083"N, 14°23'26.365"E</b> | SIGNATURE: <u>Stephanie K</u> | <b>Národní technická knihovna</b> |  | <b>National Library of Technology</b> |  | <b>Technická 6</b> |  | <b>160 80 Praha 6</b> |  | <b>Czech Republic</b> |
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