

IMMIGRANT VISA QUESTIONNAIRE FOR “EB-1”
EXTRAORDINARY ABILITY

OVERVIEW:

To establish EB-1 extraordinary ability, we must prove “**sustained national or international acclaim**” in the arts, sciences, education, business, or athletics and that you are “**one of the small percentage** who have arisen to the **very top of the field of endeavor**.” Note: The standard in the field of the *arts* is one of “distinction,” while in all others it is the “**very top of the field**.”

The application requires supporting documents (i.e., publications, awards, records of contribution, etc.) in addition to expert opinion letters that provide detailed information about your expertise, achievements/contributions, and sustained stature/recognition. As such,

1. We need to understand your expertise in your field (your general field and specialization),
2. Obtain expert opinion letters from experts who will explain your achievements/contributions to a field of endeavor and describe your sustained stature/recognition among peers, and
3. Collect and collate documents that evidence your expertise, achievements/contributions and stature/recognition.

REQUIRED INFORMATION: (with sample answers)

1. FIELD AND SPECIALTY

Please complete the sentence below by summarizing your field and your specialization each in just a few words. For example: “I am an expert in the field of High Performance Computing (HPC), specializing in HPC runtime systems and parallel communication models.” Or: “I am an expert in the field of Global Health, specializing in digital health and health technology products.” Or: “I am an expert in the field of Product Design, specializing in industrial design.”

In presenting the best case for an O-1 Visa, we always try to align your expertise description as closely as possible with your EMPLOYER role so that USCIS will not have questions about the connection between your expertise and job duties at EMPLOYER. Thank you!

Please complete this sentence using *only a few words* to describe your field and specialty:

I am an expert in the field of Computer Vision, specializing in object detection and object 6 degrees of freedom (6 DoF) pose estimation and tracking.

Please further describe, in a paragraph or more, what your field and specialization entail. This will serve as an “introduction” of your expertise to an audience who does not know you or anything about your field. For example, in addition to explaining your general field and specialization, some questions to address might include: Why is your work significant? Has it advanced your field of research? Has it powerfully benefitted a particular industry? Does it

have important commercial applications? Has it generated high-dollar investments or profits? Has it impacted 1000s of people? Etc.

We have a copy of your job requisition. But if you have any additional details about how you will use your expertise at EMPLOYER, please include that in your description below.

Please provide your paragraph or more below:

I work on 6 DoF pose estimation of rigid objects with deep learning techniques. In particular, I explore the use of dense 2D-3D correspondences between RGB image pixels and the 3D object model. The task of object pose estimation is important for many practical applications, such as augmented reality, robotics, robot picking, and hand-object interaction tracking. Several of my methods reached state of the art results in comparison to the other modern methods. The corresponding papers have been published at the relevant top journals and conferences, such as Computer Vision Pattern Recognition conference (CVPR), IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE International Conference on Robotics and Automation (ICRA) and Robotics and Automation Letters. The method described in the TPAMI paper was used to create several demo applications for various departments of Siemens AG. In my latest CVPR paper, I developed the first end-to-end monocular RGB method capable of object detection and pose estimation of novel objects without training on them. This is a big step toward more generalizable methods, and it allows for a significant reduction of time and effort needed for deep learning model training.

2. Your upcoming job title: Research Scientist

3. Your job-offer base salary: ____ per year

4. Your job-offer duties (from job requisition):

5. What is your current location?

6. Have you ever been a J-1 exchange visitor?

7. Please provide a description of your team/division (from job requisition):

8. **SIGNIFICANT ACCOMPLISHMENTS AND OR MAJOR CONTRIBUTIONS**

Please describe up to five (5) of your most significant accomplishments and/or major contributions you have made in your area of expertise.

Please number and include (a)-(e) for each accomplishment/contribution.

a) Summarize accomplishment/contribution in 1-2 sentence.

b) Describe your accomplishment/contribution in detail (can be technical explanation).

c) Describe why/how it is it unique, different, and/or a substantial improvement of works by others.

d) Describe who has acknowledged/recognized this accomplishment/contribution the most, e.g., a particular scientific/business community in the U.S.? A specific trade/commercial association? *Specify any international source of recognition.*

e) Describe the benefit of each accomplishment/contribution to academia, science, industry (i.e., healthcare), business, society, economy, etc., so that a layperson can appreciate the impact of your work. i.e., Did it lay the groundwork for other important research? Is there a commercial application that will benefit the economy/society? *Specify any U.S./domestic benefit.*

Please use as many pages and as much space as you need.

9. **MEMBERSHIPS**

Please list any memberships you have in any professional associations or organizations related to your area of expertise that require achievement or recognition on the member's part and not merely membership fees or professional licensure. Please describe the qualifications of membership. (See Question 10 relating to participation/contribution to professional associations/organizations regardless of membership requirements or status.)

10. **SIGNIFICANT PARTICIPATION**

Please list any significant participation (contribution) to professional associations or organizations related to your area of expertise regardless of membership requirement or status. Include any selection as a member of a committee, board, chapter, conference committee, etc.

11. PUBLICATIONS ABOUT YOU AND/OR YOUR WORK

Please list any publications written about you or about your accomplishments* (*in this case, you do not have to be mentioned by name, but we will need supporting evidence that prove that the accomplishments are about you, i.e., explained in an expert opinion letter). If applicable, for scholarly/research papers citing your research, please list 5 papers that cite your scholarly/research work/papers in esteemed venues and/or have a high citation. See Question 10 regarding publications authored by you

Papers that cite my research:

1. "ABC framework for object pose estimation," by Shaobo Zhang, Wanqing Zhao, Ziyu Guan, Xianlin Peng and Jinye Peng. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 2021, pp. 1065-1073.

12. ARTICLES, RESEARCH PAPERS OR SCIENTIFIC "POSTERS" THAT YOU HAVE AUTHORED (that were cited with 10+ citations each). How these articles relate to your current role?

Please list all articles and/or books you have authored. List written speeches or inclusion of sections/chapters in books/collections. Please use the following format:

- 1)
- 2)

If applicable, please note the **# of scholarly citations of your work listed on Google Scholar:** _____

13. JUDGE OR PEER REVIEW OF THE WORK OF OTHERS

Please describe any instances where you performed as a “judge” of others’ work. This may include a position/role requiring you to review your colleagues’ work as an executive—or, in the research/science fields, peer review of scholarly articles, etc. (If applicable, list teaching roles in academia under Question 12.) Please use the following format:

Name of Journal, Number of articles reviewed for the journal
Ex: Science Journal, 3 articles

Peer review of scholarly articles in the following conferences and journals:

14. TEACHING POSITIONS IN YOUR FIELD

If applicable, please list all positions you have held involving teaching in your field of expertise.

Master’s level course on Tracking and Detection in Computer Vision at the Technical University of Munich. I was a tutor in 2017 and 2018 before the start of my PhD and in 2019 and 2020 during my PhD.

15. ANY OTHER RELATED ACHIEVEMENTS—INCLUDING PATENTS

Please list any other of your scientific, scholastic, or business-related contributions (i.e., patents/patent applications, methodologies, policy, revenue/growth, etc.) relating to your field of expertise not included elsewhere in this questionnaire.

1.