EXPERIENCES AND TIPS FOR MSCA FELLOWSHIP

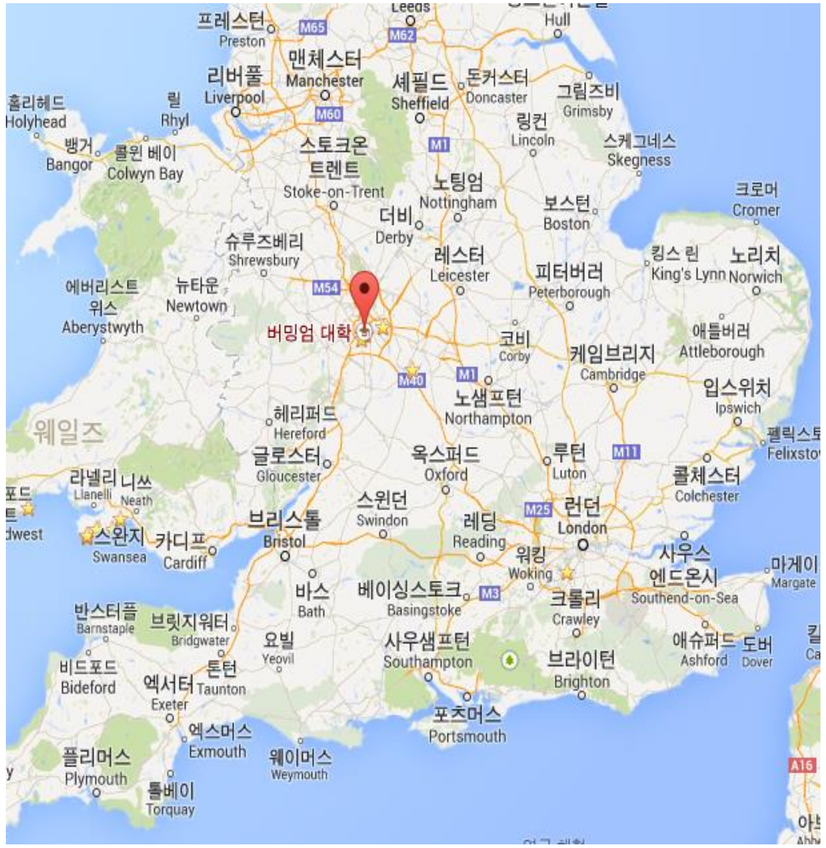
UNIVERISYT OF ULSAN

TEUN-TEUN KIM(김튼튼)

Self-introduction

-Education

- Sep. 2004 ~ Aug. 2010 **Ph.D.**, Physics, KAIST (PI: Prof. Jae-Eun Kim Hae Yong Park)
- Mar. 2000 ~ Aug. 2003 **B.Sc.**, Physics, Chosun University (First Class Honours)



-Professional Experience:

- Sep. 2020 ~ Present **Assistant Professor**, University of Ulsan
- Mar. 2017 ~ Aug. 2020 **Research Professor, Young Scientist Fellow**, IBS SKKU
- Mar. 2015 ~ Feb. 2017 **Marie Curie Research Fellow**, University of Birmingham
- Sep. 2013 ~ Feb. 2015 **NRF Postdoctoral Research Fellow**, University of Birmingham (PI: Prof. Shuang Zhang)
- Sep. 2010 ~ Aug. 2013 **Postdoctoral Research Fellow**, KAIST (PI: Prof. Bumki Min)

- When I graduated..
  - ✓ **3 first author papers (IF 3~4)**
  - ✓ **2 co-author papers**
  - ✓ **4 academic presentation awards**
- To get an academic job..
  - ✓ **Post Doc. experience in overseas**
  - ✓ **Prestigious journals (Nature, Science etc..)**

FROM

nature

YOUNG SCIENTISTS

A *Nature* special issue

nature.com/youngscientists

Nature (26 October 2016)

UNDER PRESSURE

PHDS RISING, JOBS FLAT

FUNDING FALTERS

TOUGH COMPETITION

- To get an academic job..
  - ✓ **Post Doc. experience in overseas**
  - ✓ **Prestigious journals (Nature, Science etc..)**

-Professional Experience:

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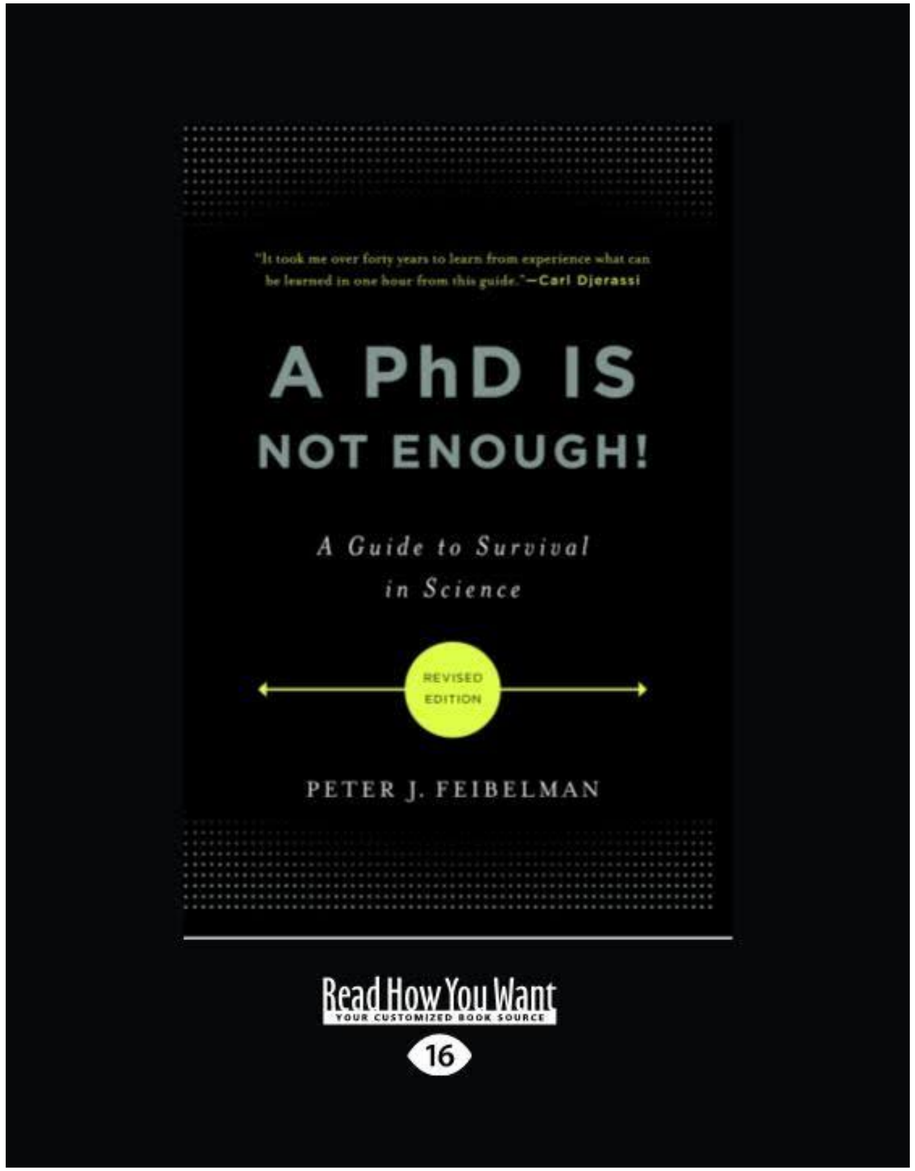
Nature Materials, Nature Communications, Advanced Materials…



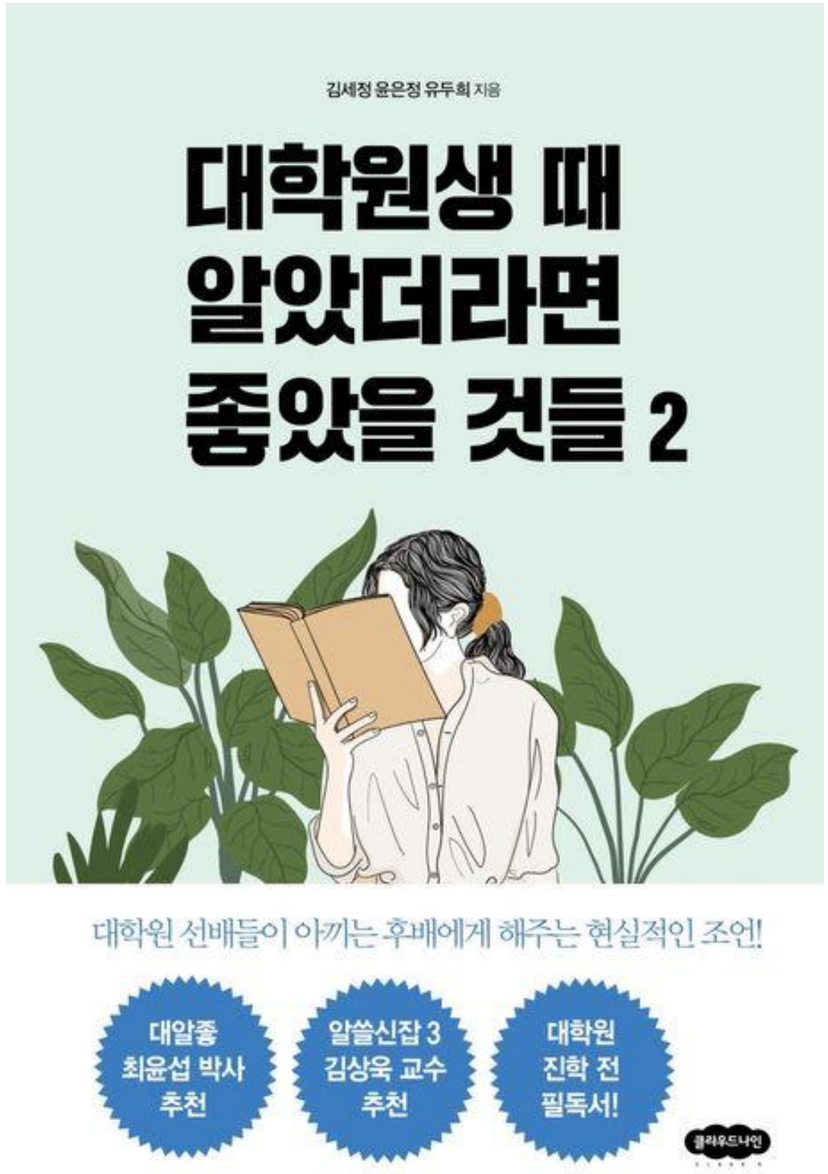
Post Doc.

Research Associate

Research Fellow

Research Professor

…



Sep. 2010 ~ Aug. 2013

Post Doc. @ KAIST

Postdoctoral Research Fellowship
(학문후속세대양성사업)

Sep. 2013 ~ Aug. 2014

Post Doc. @ Univ. of Birmingham

Mar. 2015 ~ Feb. 2017

Marie Curie Research Fellowship

Mar. 2017 ~ Present

IBS Young Scientist Fellowship

Post Doc. → Visiting Scholar → Fellow with travel & training funds → Fellow with Research grant

Career development Programs for European Early-career researchers

Marie Curie Research Fellow

: In addition to generous research funding, scientists have the possibility to gain experience abroad and in the private sector, and to complete their training with competences or disciplines useful for their careers.

Dear Teun-Teun,

Thank you for your interest. **At the moment I don't have a funded position**, but might so starting in fall this year. I will know by the end of February. Can you contact me again then?

Also, what about applying for Fellowships? The Marie Curie fellowship scheme for example – please take a look.

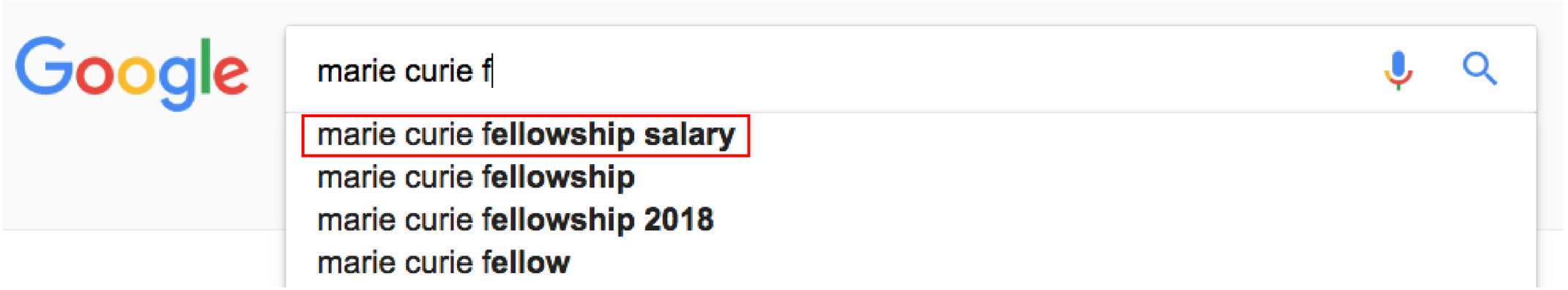
Best,

Dear Teun-Teun,

It is nice to hear from you and thank you for your interest in our group.

Yes, I am certainly happy to be your host for your research proposal. **We may also consider other schemes such as Marie Curie or Newton Fellowship**.

Best wishes,

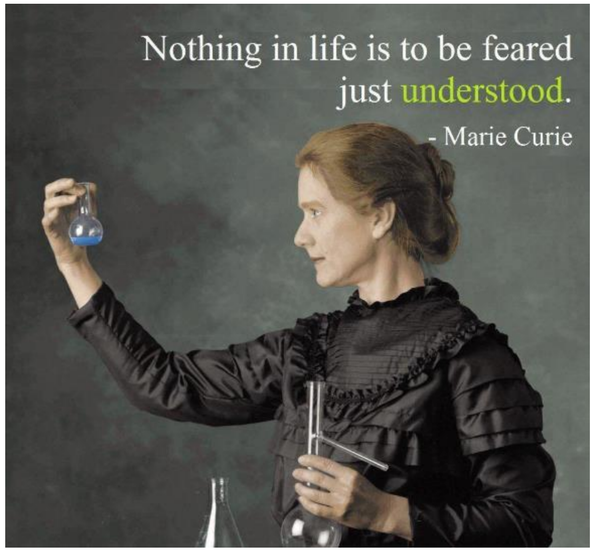


The very competitive nature of the Marie Skłodowska-Curie Individual Fellowship (MSC-IF) is not the only distinction of this program but also the high salary of the fellows make it very special in grants intended for junior scholars. One of the particular fact about this fellowship is that you can get the money to pursue your idea in almost all of the countries worldwide.

	Gross salary of a person with accompanying family- Euro/month	Gross salary of a person without accompanying family- Euro/month
Bermuda	8144.75	7644.75
Denmark	7391.45	6891.45
Faroe Islands	7335.65	6835.65
Norway	7233.35	6733.35
New Caledonia	7093.85	6593.85
Democractic republic of Congo	7033.4	6533.4
Chad	6926.45	6426.45
Congo	6907.85	6407.85
UK	6693.95	6193.95

http://fastepo.com/2017/06/21/top-10-countries-with-highest-salary-of-marie-curie-fellowship/

https://ec.europa.eu/research/mariecurieactions/



B1 Research and technological Quality

B1.1 Research and technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal

B1.2 Appropriateness of research methodology and approach

B1.3 Originality and innovative nature of the project, and relationship to the 'state of the art' of research in the field

B1.4 Timeliness and relevance of the project

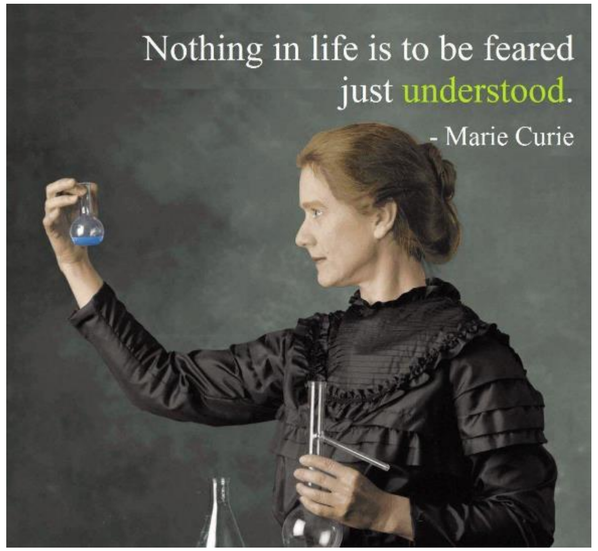
B1.5 Host research expertise in the field

B1.6 Quality of the group/scientist in charge

B2 Transfer of knowledge ???

B2.1 Clarity and quality of the transfer of knowledge objectives

B2.2 Potential of transferring knowledge to European host and/or bringing knowledge to Europe



B3 Researcher

B3.1 Research experience

B3.2 Research results including patents, publications, teaching, etc.

B3.3 Independent thinking, leadership qualities, and capacity to transfer knowledge

B3.4 Match between the fellow's profile and project

B4 Implementation

B4.1 Quality of infrastructure/facilities and international collaborations of host

B4.2 Practical arrangements for the implementation and management of the research project

B4.3 Feasibility and credibility of the project, including work plan

B4.4 Practical and administrative arrangements and support for the hosting of the fellow

B5 Impact ???

B5.1 Potential for creating long-term collaborations and mutually beneficial co-operation between Europe and Third countries

B5.2 Contribution to European excellence and European competitiveness through valuable transfer of knowledge

B5.3 Impact of the proposed outreach activities

Ask the PI for the contact office in the host University!

Research & Innovation Services
Research Information & EU
Funding Support office

Ask the PI for the contact office in the host University!

B1 RESEARCH AND TECHNOLOGICAL QUALITY

B1.1 Research and technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal

This project aims at demonstrating **electrically controllable optical activity in the terahertz frequency regime with a hybrid metamaterial system**. Specifically, we propose a **gate-controlled graphene/chiral metamaterial system** for the dynamic control of optical activity. The proposed hybrid metamaterial system features very thin, free-standing and flexible platform and is capable of full electrical control of the optical activity, which will overcome most of the limitations of current semiconductor-based chiral metamaterials.

Hidebr 2013년 7월 24일

I have to admit I was a little confused at frst as to what you were planning on doing and why. You may not have reviewers from your field so you need to make sure that your proposal can be understood by an educated lay person.

I suggest starting with an introductory paragraph that gives a general overview of your questions and why it is important (see Adapt in the MC examples in drop box).

Also make sure you over arching research aim is supported by specific research objectives that can be directly linked to your 4 main research tasks.

Branwen Hide · 1st

Research Development Officer (Physics) at the...

Brussels

Experience: University of Warwick, UK Research Office (UKRO), and 10 more

3 mutual connections

Message View full profile

Marie Curie 2012 IIF – FP7

Criterion 1. S&T QUALITY (award)

Criterion 2. TRANSFER OF KNOWLEDGE (award)

WEAKNESSES

** The quality of the proposed mechanisms of knowledge transfer at the university level is not adequate. It is limited to the researcher's participation in seminars and reading groups.*

** The fellow's interactions with university students is limited by the proposed vertically integrated approach.*

Criterion 3. RESEARCHER (award)

WEAKNESS

** The fellow's leadership and independent thinking qualities are not convincingly demonstrated in the proposal.*

Criterion 4. IMPLEMENTATION (selection)

WEAKNESSES

** It is not clear whether the proposal is feasible at the host.*

** The proposal does not describe the required facilities and infrastructure.*

** The deliverables, risk analysis and contingency plans are missing.*

Criterion 5. IMPACT (award)

WEAKNESS

** Outreach activities are very briefly described*

Marie Curie 2013 IIF – FP7

Criterion 1. S&T QUALITY (award)

Overall score (Threshold: 3.00/5.00, Weight: 0.25) **4.50**

Criterion 2. TRANSFER OF KNOWLEDGE (award)

Overall score **4.30**

- Demonstrator, URP (Undergraduate Research Participation), etc.

Criterion 3. RESEARCHER (award)

- Leadership Awards, Team Leader, New ideas for Experiment

Criterion 4. IMPLEMENTATION (selection)

Criterion 5. IMPACT (award)

- Univ. Open day, Lectures for primary and secondary school students, MC Ambassador, etc.

Marie Curie – FP7

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Marie Curie IF – Horizon Europe

Part B-1 .....

1. Excellence .....

2. Impact .....

3. Quality and Efficiency of the Implementation

Part B-1 Page limit: Sections 1, 2 and 3 together should not be longer than 10 pages.

Incoming phase

Type of contract	Category	Applicable mobility allowance	Duration	Host country	Living allowance (1)	Mobility allowance (2)	Contribution to the training expenses of eligible researchers and research/transfer of knowledge programme expenses (3)	Contribution to overheads (5)	Total EU contribution
A	ER04	700.00	24	United Kingdom	157,248.00	22,579.20	19,200.00	22,579.20	221,606.40
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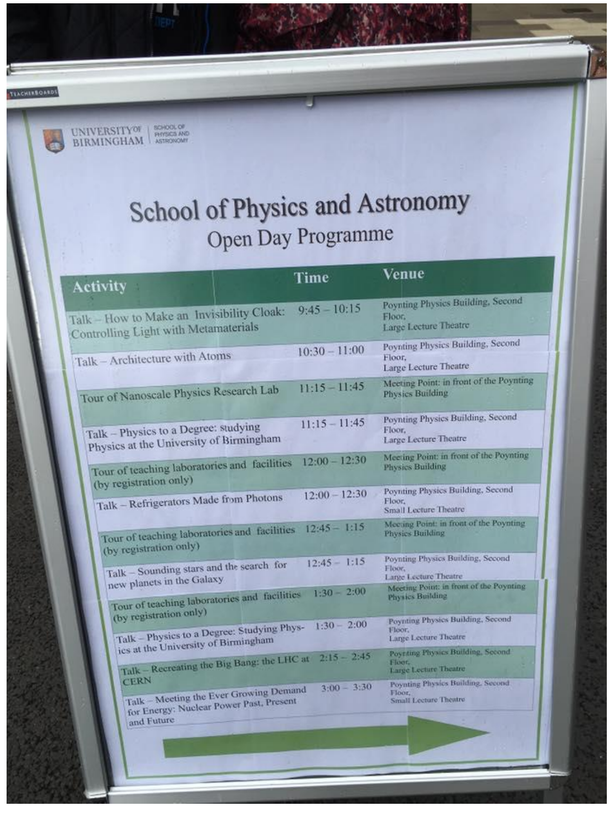
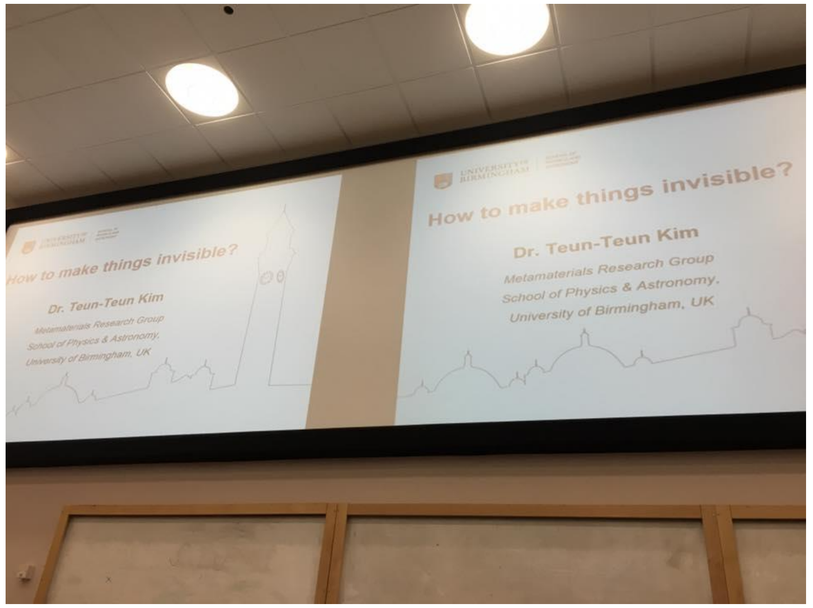
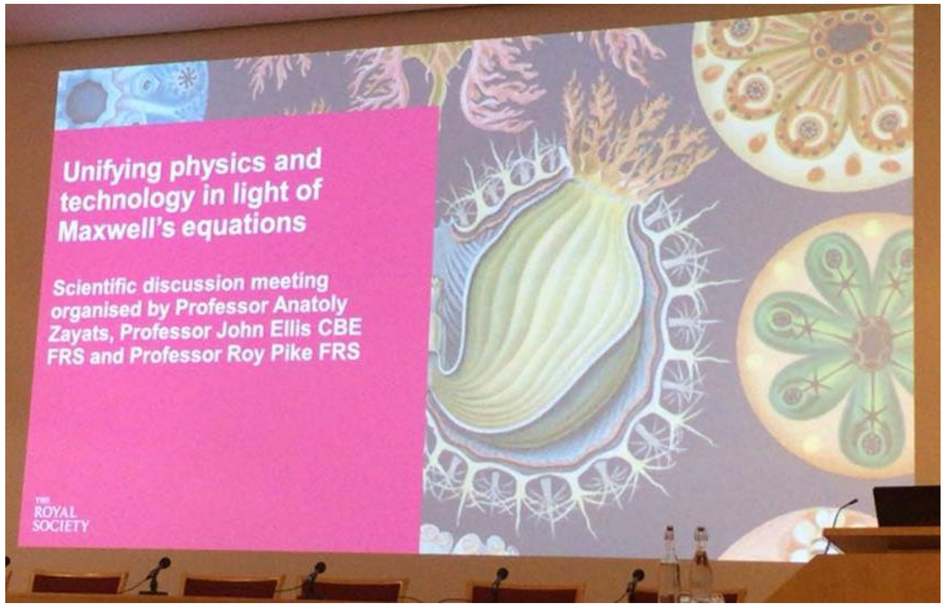






You can do your research independently !!

Your career development plan is the most important!!

- **Fellowship reports**
  - Career Development Plan
  - Project Mid-term Report
  - Project final Report

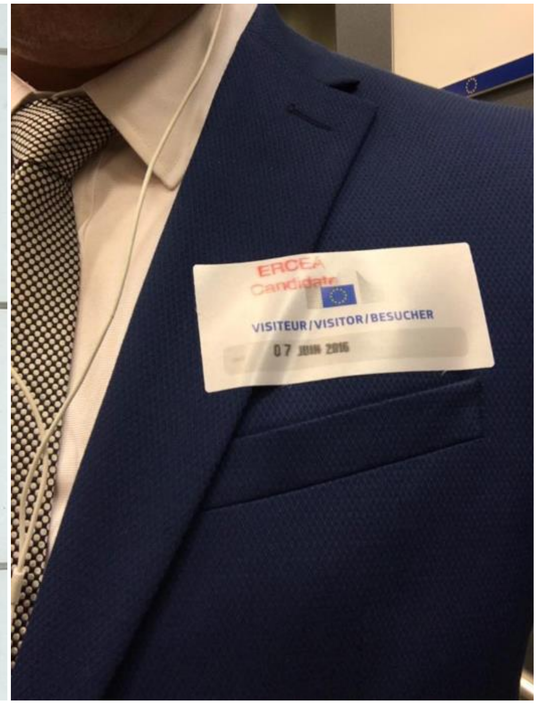
E R C - S T A R T I N G G R A N T I N T E R V I E W

European Research Council

Fellow with travel & training funds

⬇

Tenure track faculty
or
Fellow with Research grant



June 2016

Marie Curie Fellowship is the prestige fellowship!

Evaluation Criteria

Criterion 1 - RESEARCH PROJECT

- **Ground-breaking nature and potential impact of the research project.**
- **Scientific Approach.**

Criterion 2 - PRINCIPAL INVESTIGATOR

- **Intellectual capacity, creativity and commitment**

Reviewer's comments

The PI has authored several high-impact papers. One highly cited as co-1st author, one recent nature communication also as co-1st author. The reviewer does not find any publication outside his host PhD institute, meaning that his ability to propose and conduct independent research has not been proven yet. On the other hand, **he holds the prestigious Marie Curie fellowship** which strengthens his resume.

The PI as an undergraduate and graduate student has an excellent record. As a post- doc in KAIST and in Birmingham, he has a very good record of citations in his publications. He is the recipient of a **Marie Curie fellowship** for the period 2015-2017 in a subject closely related with this current ERC proposal. The PI intends to devote 100% of his time to the project.

The PI has an outstanding track record, including several publications in high-impact journals, invited talks, **Marie-Curie and national fellowships**. This serves as a solid prove of the PI's ability to propose and conduct groundbreaking research, and demonstrate independent thinking.

The applicant has a limited number of publications but these are in mainly very high impact journals. He has already obtained funding for current **Marie Curie Fellowship until Feb 2017**. He has indicated he will spend 100% of his time on the grant.

“Life is not easy for any of us. But what of that? We must have perseverance and above all confidence in ourselves. We must believe that we are gifted for something, and that this thing, at whatever cost, must be attained…!”

As quoted in “Madame Curie: A Biography”, (1937) by Eve Curie Labouisse, Part 2, p. 116


Thank You!
Cheers!
Dewch ymlaen!
加油!
がんばってください!
Bon Courage!
Se Puede!
ДАВАЙ!
Kopf hoch!
힘내요!