EXPERIENCES AND TIPS BY KOREAN MSCA FELLOW

2023 유럽 마리퀴리 포닥 펠로우십
Online Workshop Programme

UNIVERISYT OF ULSAN

TEUN-TEUN KIM(김튼튼)

Center for Integrated Nanostructure Physics

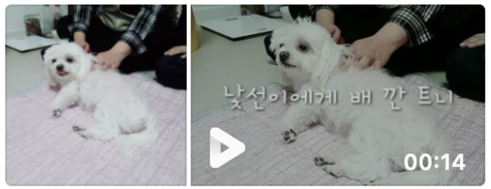
Self-introduction

N | 김튼튼

VIEW • 전체 • 블로그 • 카페

순덕이의 블로그 | 2020.01.05.

트니의 일상_ 웃기는 김튼튼



2019.01.04 (토) 트니 3살에 입양으로 한가족이 되어 8년이 지나 11살이 된 **김튼튼**. 지금까지 내가 트니를 지켜본바로는. 음... 선택적으로 낯을 가린다. 못생긴 남자에게는 절대 안간다. 20대정도의 젊은 잘생긴 남자가...

전쟈블로그 | 2021.03.03.

2020.12.06.일. #297일차 : 쾌변 김튼튼선생의 개인기 뿜뿜

쾌변 **김튼튼** 선생. ㅋㅋㅋ 주말엔 아빠랑 맘마를 먹는다. 도중에 집중력이 흐트러지면 엄마 투입. 창밖에 햇살이 좋아서 외출을 하기로 했다. 튼튼이 중무장을 하고. ㅎㅎ 토끼 털모자는 사실 신...

#육아일기 #297일차 #소고기단감대추완두콩 #소고기비트표고버섯감자

PiCK 해당 언론사가 주요기사로 직접 선정한 기사입니다.

한국경제 | A17면 1단 | 2017.06.04. | 네이버뉴스

IBS 영사이언티스트펠로 1기 김튼튼·박정우 연구위원

"박사후 진로, 교수 아니면 연구원 뿐...미국처럼 다양한 연구기회 절실" [박근태 기자] IBS의 '영사이언티스트펠로'에 뽑힌 **김튼튼**(왼쪽)·박정우 연구위원. **김튼튼** 기초과학연구원(IBS) 나...

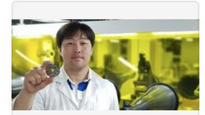
동아사이언스 | 2019.12.06. | 네이버뉴스

"과학이 어렵기만 하다는 편견 극복하려면 과학자가 더 다가서야"

이날 토론의 주제는 '과학자의 언어는 대중의 언어로 해석될 수 있을까'로 **김튼튼** IBS... **김튼튼** 연구위원은 "과학자들은 소통 활동 경험이 없고 시간을 많이 뺏긴다고 생각하는 경향이 있다"...

신소재경제신문 | 2018.05.18.

IBS, 빛의 속도 '자유자재' 조정 소자 개발

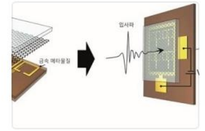


기사이미지 1 개발한 소자를 들고 있는 **김튼튼** YSF. 소자는 이온겔, 그래핀, 금속 전자기 유도 투과 메타물질... IBS 나노구조물리 연구단(단장 이영희) **김튼튼** 연구교수팀과 민범기 KAIST...

'메타물질'로 빛의 속도 조절한다?! 이웃집과학자 | 2018.05.18.

머니투데이 | 2018.05.15. | 네이버뉴스

빛 속도 조절하는 메타물질 구현...차세대 광통신 소자 개발 앞당겨



기초과학연구원(IBS) 나노구조물리연구단 **김튼튼** 연구교수팀과 카이스트(KAIST) 기계공학과 민범기... **김튼튼** 연구교수는 "자동차(빛)가 고속도로(광섬유)에서 달리던 속도로 도심(빛→...

'빛 속도 맘대로 늦췄다 올렸다' 그래핀-메타물질 ... 연합뉴스 | 2018.05.15. | 네이버뉴스
빛의 속도 자유자재로 바꿔 광통신 소자 한계 넘... 조선비즈 | 2018.05.15. | 네이버뉴스
기초硏, 광자 속도 조절 메타물질 구현 대전일보 | 2018.05.15.
IBS, 빛 속도 조절하는 그래핀·메타물질 기... 전자신문 PiCK | 2018.05.15. | 네이버뉴스

관련뉴스 11건 전체보기 >

UPI UPI뉴스 | 2018.05.16.

빛의 속도 느리게 다시 빠르게 조절하는 메타물질 구현

기초과학연구원(IBS, 원장 김두철) 나노구조물리 연구단(단장 이영희) **김튼튼** 연구교수팀이 KAIST... **김튼튼** 연구교수는 "자동차(빛)가 고속도로(광섬유)에서 달리던 속도로 도심(빛→전...

5월 16일은 '제1회 세계 빛의 날'...빛 연구에 분주한 대덕특구 ... 금강일보 | 2018.05.16.

Self-introduction

Google

teunteun kim

https://scholar.google.com › citations

Teun-Teun Kim (김튼튼) - Google Scholar

Teun-Teun Kim (김튼튼). Assistant Professor of Dept. of ... SH Lee, M Choi, TT Kim, S Lee, M Liu, X Yin, HK Choi, SS Lee, CG Choi, ... Nature materials 11 (11), ...

https://ko-kr.facebook.com › teunteun

이름이 Teun-Teun Kim인 다른 사람들 - Facebook

Teun-Teun Kim님은 Facebook 회원입니다. Facebook에 가입하여 **Teun-Teun Kim**님 등 다른 친구들을 만나세요. Facebook은 활발한 정보 공유를 통해 보다 친밀 ...

https://kr.linkedin.com › teun-teun-kim-31a08b54

Teun-Teun Kim - Young Scientist Feollow - Center ... - LinkedIn

Teun-Teun Kim | 대한민국 | Young Scientist Fellow, IBS | 1촌 141명 | **Teun-Teun**님의 전체 프로필을 보고 1촌이 되세요.

https://sites.google.com › site › teunteunkim

TT Laboratory at UOU - Google Sites

Teun-Teun starts new career at University of Ulsan - Sep 1, 2020. I'm happy to announce that I'm starting my research at the University of Ulsan, department of ...

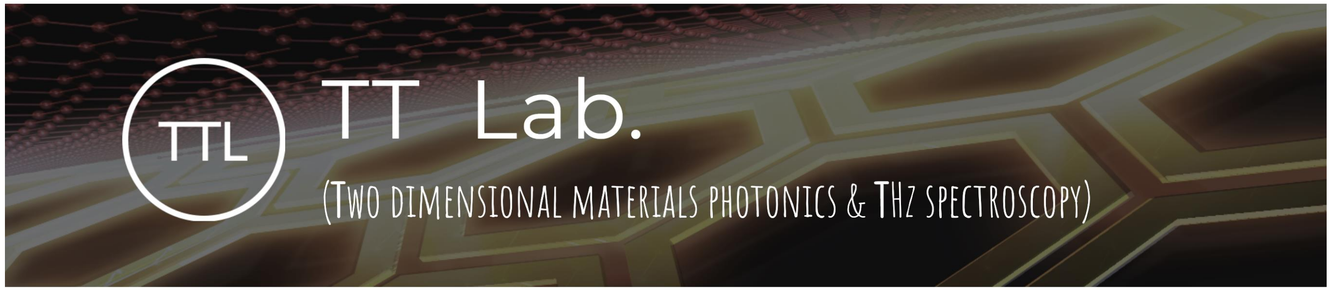
teunteun kim 관련 이미지

피드백

모두 보기

울산대학교 UNIVERSITY OF ULSAN TT Laboratory at UOU

Home 1. Research Interests 2. People 3. Publications 4. Research Highlights Websites



Latest News

"빛의 재발견: 우리 빛이 달라졌어요" @Horizon (KIAS) - Apr 16, 2021

Dr. Changwon Seo has joined *TTL* as a Post Doctoral Researcher. Welcome!! - Mar 19, 2021

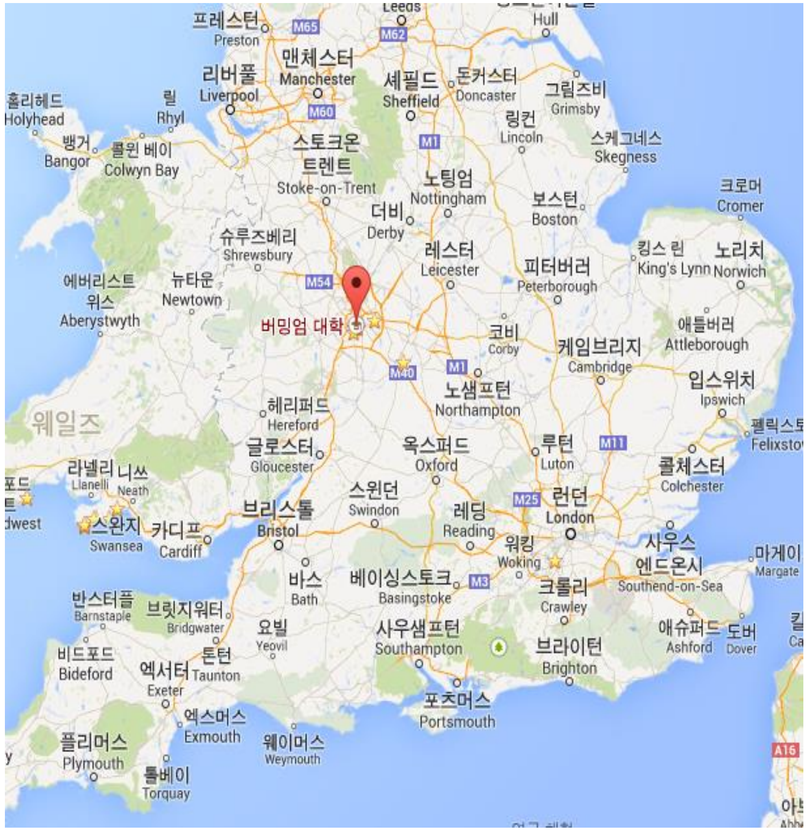
NRF

We have been selected for a grant from **Young Researcher Program (우수신진 연구) by NRF** to develop sensitive biochemical sensors based on Non-Hermitian Metasurfaces - Feb 19, 2021

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)

FROM

nature

YOUNG SCIENTISTS

A *Nature* special issue

nature.com/youngscientists

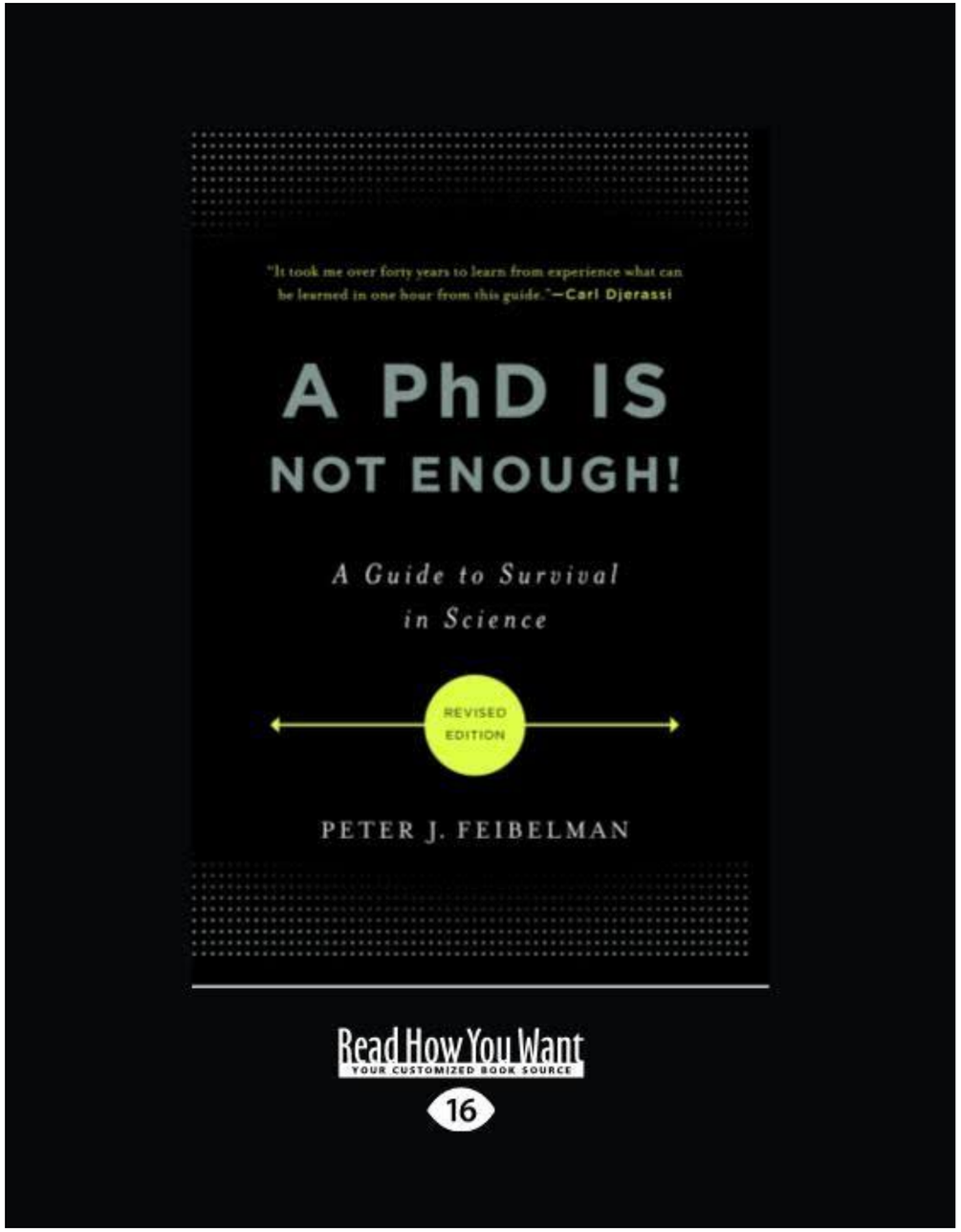
Nature (26 October 2016)

UNDER PRESSURE

PHDS RISING, JOBS FLAT

FUNDING FALTERS

TOUGH COMPETITION



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.

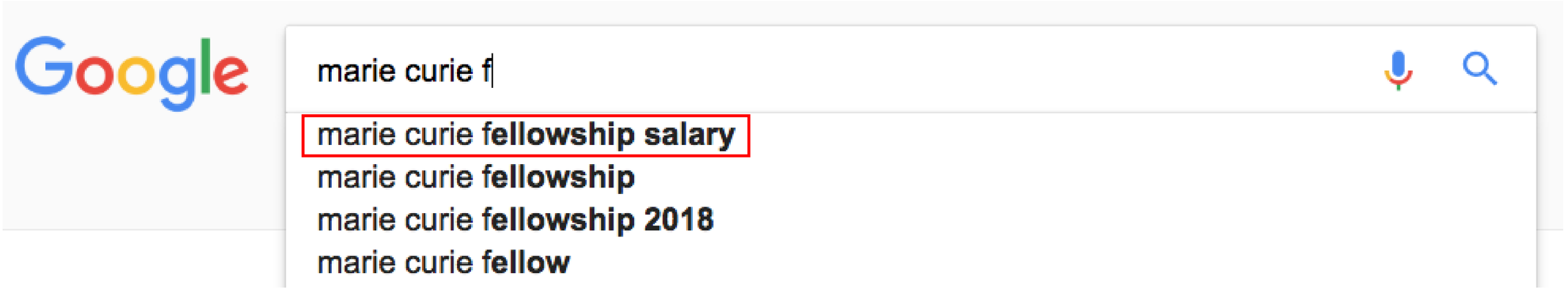
Best,

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,

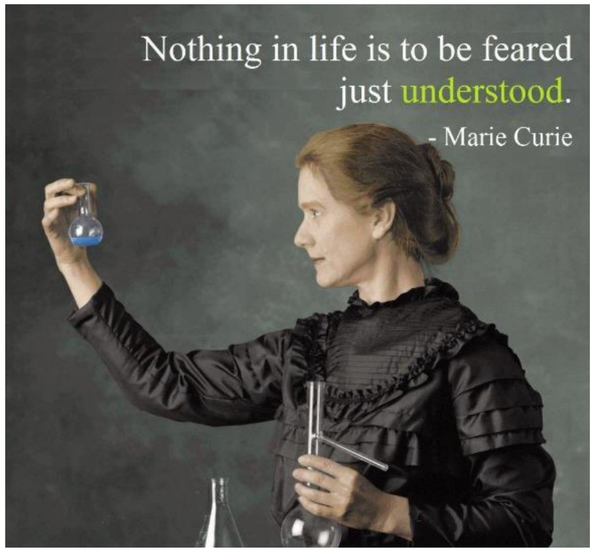


The very competitive nature of the Marie Skłodowska-Curie Individual Fellowship (MSC-IF) is not the only distinction of this program but also the high salary of the fellows make it very special in grants intended for junior scholars. One of the particular fact about this fellowship is that you can get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

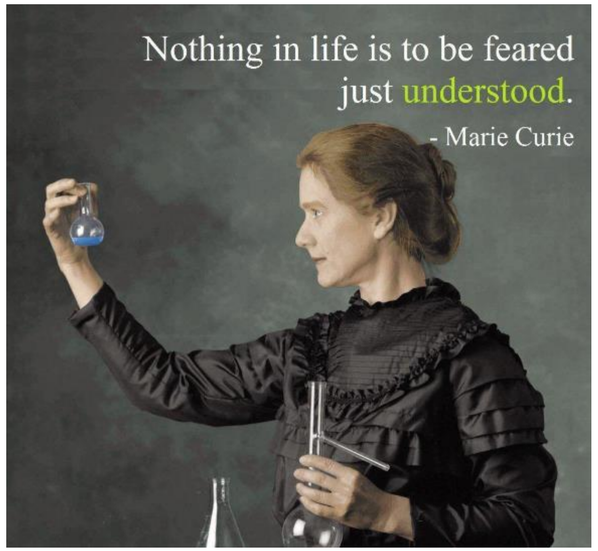
B1.5 Host research expertise in the field

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.

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

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
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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

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

Marie Curie IF – Horizon Europe

Part B-1 .....

1. Excellence .....

2. Impact .....

3. Quality and Efficiency of the Implementation

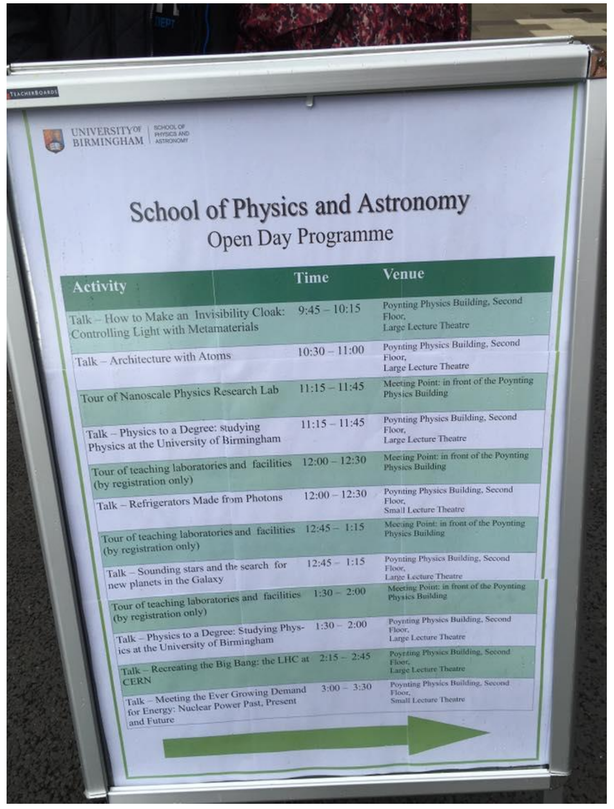
Part B-1 Page limit: Sections 1, 2 and 3 together should not be longer than 10 pages.

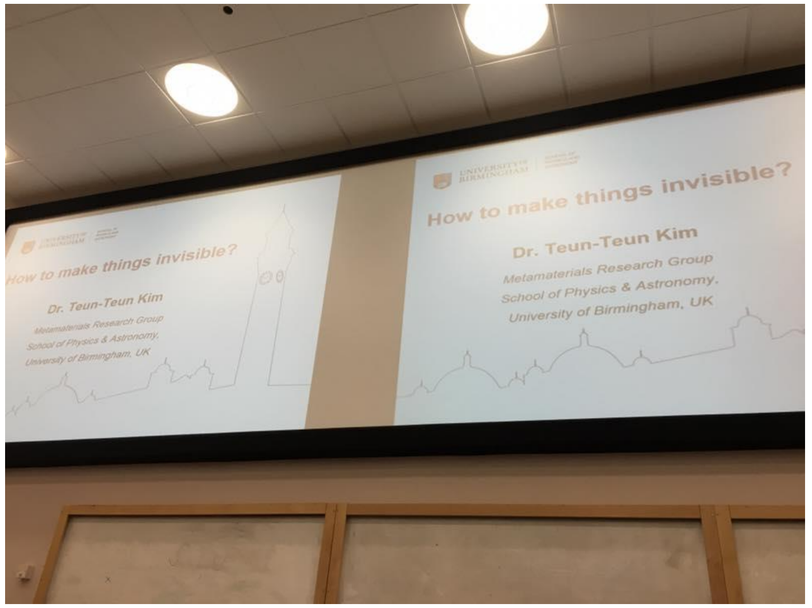
Incoming phase

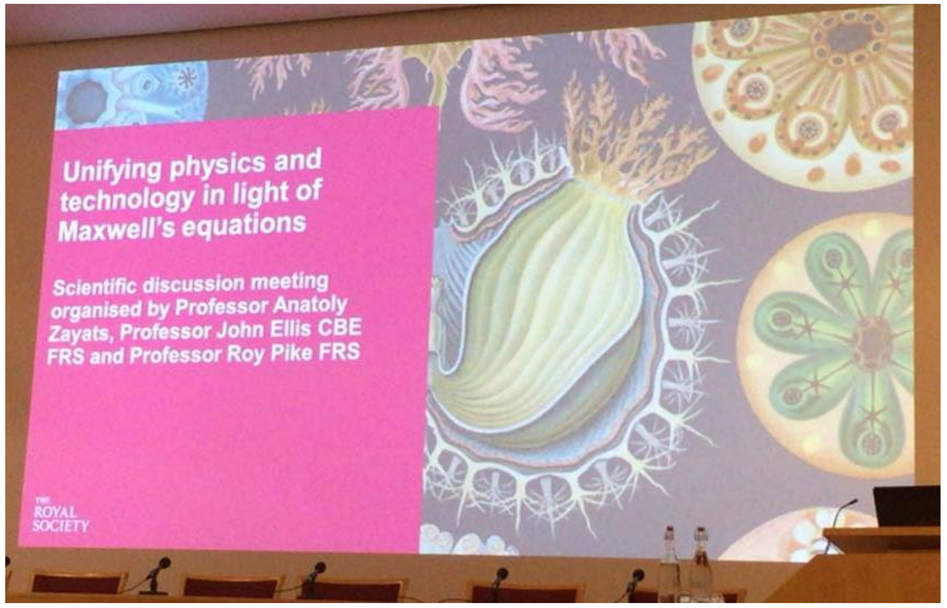
Type of contract	Category	Applicable mobility allowance	Duration	Host country	Living allowance (1)	Mobility allowance (2)	Contribution to the training expenses of eligible researchers and research/transfer of knowledge programme expenses (3)	Contribution to overheads (5)	Total EU contribution
A	ER04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

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
				Total	157,248.00	22,579.20	19,200.00	22,579.20	221,606.40







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

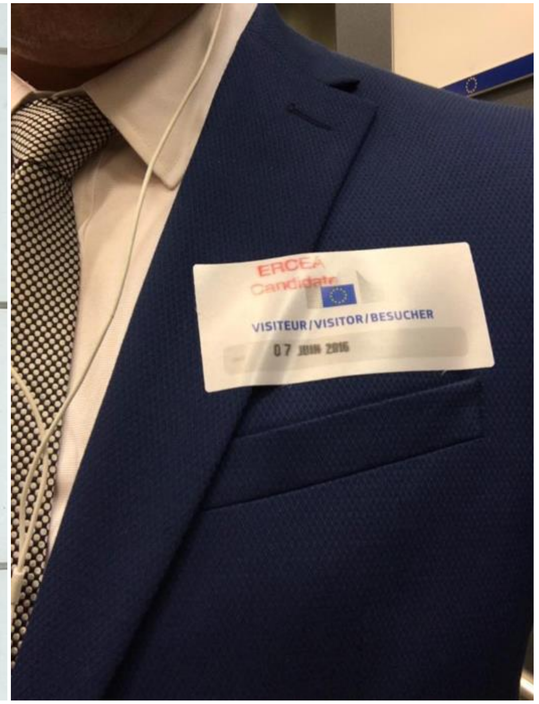
E R C - S T A R T I N G G R A N T I N T E R V I E W

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!