



HOKKAIDO UNIVERSITY

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Higher education in Germany

and Europe:

Personal view

Hiroshi Kawamura



Who is he?



**Dr. phil. in Chemistry
Uni. of Goettingen, Germany
in 1852**

https://en.wikipedia.org/wiki/William_S._Clark



ON
METALLIC METEORITES.

AN INAUGURAL DISSERTATION
ON PROMOTION TO THE RANK
OF
DOCTOR OF PHILOSOPHY
AT THE
GEORGIA AUGUSTA UNIVERSITY.

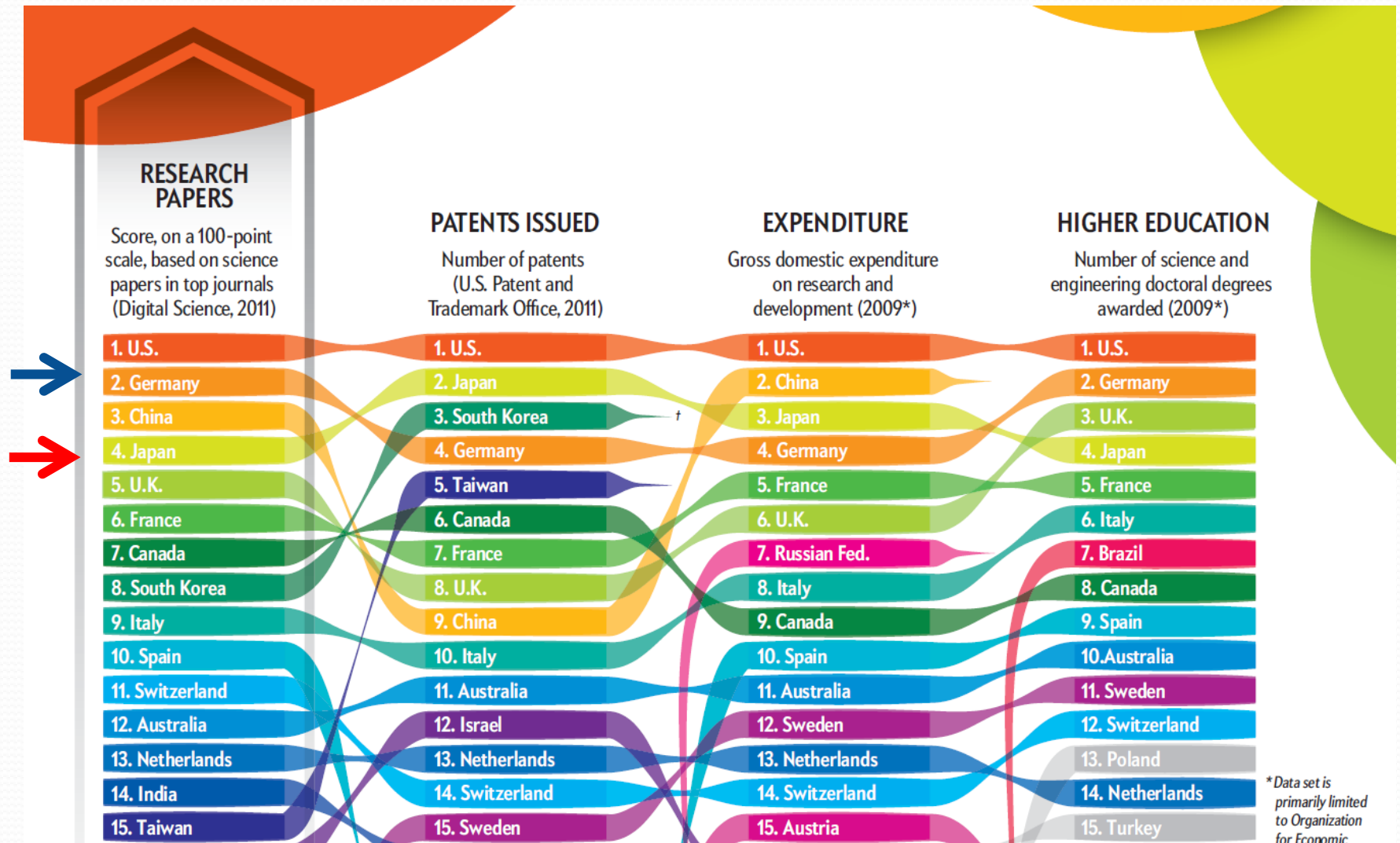
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WILLIAM S. CLARK
OF
THE UNITED STATES.

GÖTTINGEN, MDCCCLII.
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Why Germany?

- ✓ **High level of research**

Research activity



Research activity

Publication

Nature Publishing Index - 2013 Global Top 200

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These rankings are based on the number¹ of papers that were published in 2013 from the institutions² listed below. These rankings only include primary research papers that were published as "Articles, Letters and Brief Communications" in *Nature* and/or *Nature* monthly research journals.

To view the list of articles from an institution click on the number in the right hand column.

Research Articles

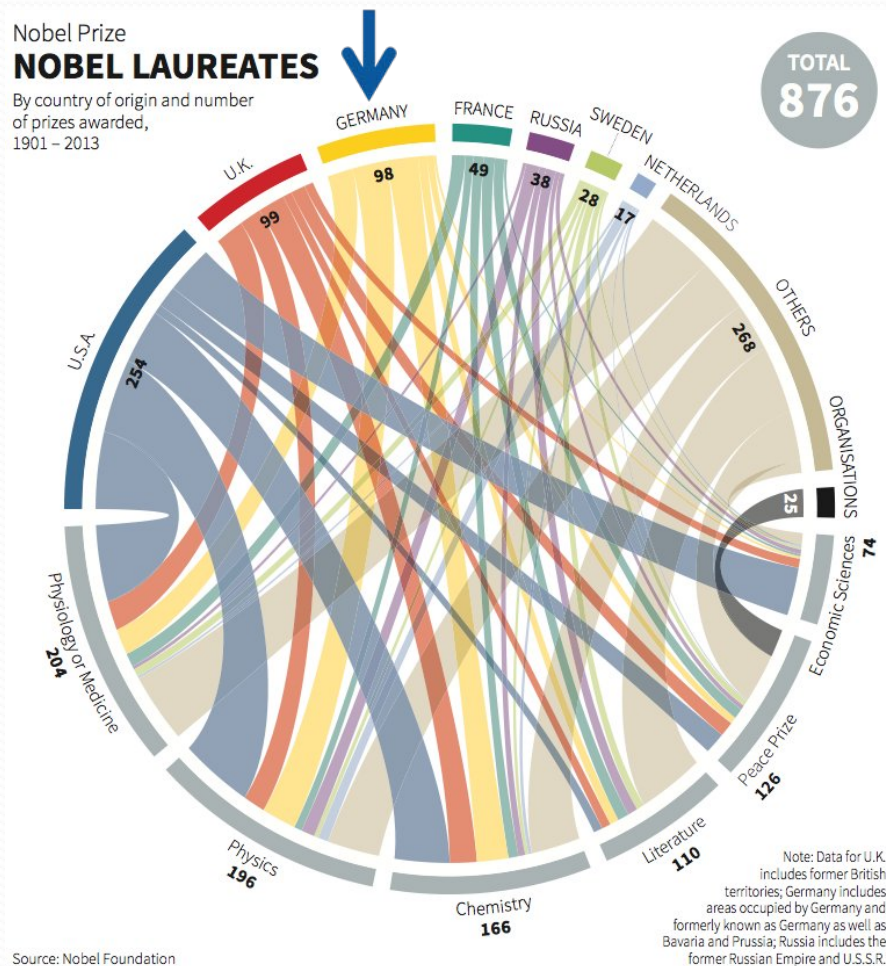
Institution	CC ³	Articles ⁴
1. Harvard University, USA	158.99	387
2. Massachusetts Institute of Technology (MIT), USA	84.68	228
3. Stanford University, USA	80.21	170
4. + National Institutes of Health (NIH), USA	73.46	181
5. + Max Planck Society, Germany	70.65	216
6. + Chinese Academy of Sciences (CAS), China	63.15	165
7. French National Centre for Scientific Research (CNRS), France	59.37	297
8. The University of Tokyo, Japan	57.19	128
9. University of California San Francisco (UCSF), USA	49.81	107
10. University of Cambridge, UK	48.52	151
11. University of Oxford, UK	42.7	136
12. Columbia University in the City of New York, USA	41.28	108
13. + Helmholtz Association of German Research Centres, Germany	39.9	201
14. University of London - University College London, UK	37.29	121
15. University of Michigan, USA	36.07	88

111. Uppsala University, Sweden	9.13	43
112. Wellcome Trust Sanger Institute, UK	9.12	56
113. Vanderbilt University, USA	9.1	46
114. The University of Nottingham, UK	9.1	28
115. The Hebrew University of Jerusalem, Israel	9.07	25
116. Heidelberg University, Germany	8.78	51
117. University of Rochester, USA	8.59	19
118. Hokkaido University, Japan	8.45	25
119. Rice University, USA	8.41	16
120. Emory University, USA	8.29	28
121. + Leibniz Association, Germany	8.28	44
122. Salk Institute for Biological Studies, USA	8.22	26
123. Agency for Science, Technology and Research (A*STAR), Singapore	8.2	40
124. Seoul National University, Korea	8.14	37
125. University of Virginia, USA	7.98	21
126. Brookhaven National Laboratory (BNL), USA	7.96	21

Why Germany?

- ✓ High level of research
- ✓ **Rich tradition in research**

Rich Tradition in research



Source: Nobel Foundation

W. Foo, 03/10/2014

REUTERS



Why Germany?

- ✓ High level of research
- ✓ Rich tradition in research
- ✓ **Low tuition**

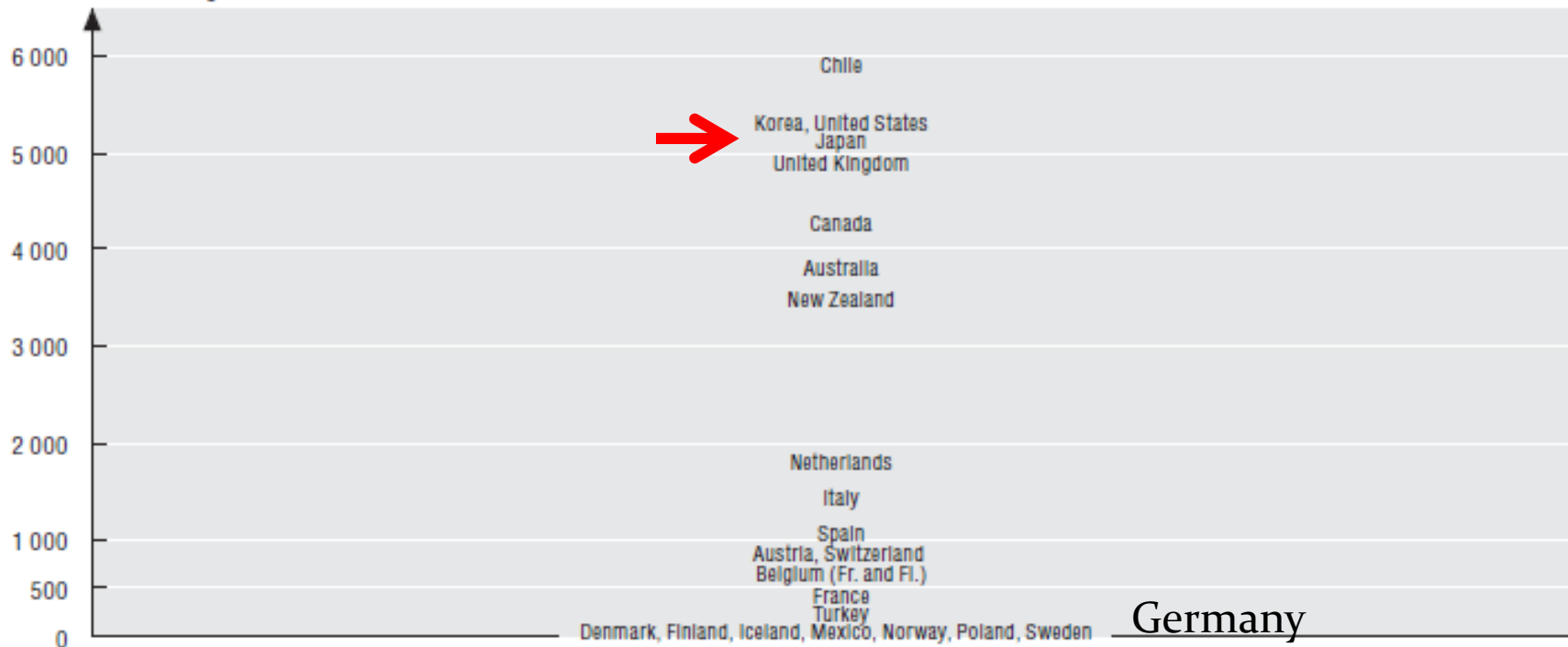
Universities in comparison

Tuition fee

Figure 4.9. **Tuition fees for university, 2011**

This figure shows the average annual tuition fees charged to full-time national students in public institutions for university-level education.

USD converted using PPPs



Source: OECD (2014), *Education at a Glance 2014*, Chart B5.2, available at <http://dx.doi.org/10.1787/888933117820>.

Why Germany?

- ✓ High level of research
- ✓ Rich tradition in research
- ✓ Low tuition
- ✓ **Scholarship & Funding**

Scholarships

DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

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The DAAD has adopted a new strategy to successfully meet the challenges in the dynamic field of international higher education in the coming years.

[More »](#)

Michael Jordan



<https://www.daad.de/en/>

Ph.D position (as a paid job)

Doctoral Student (f/m) Epidemiology and Biostatistics

University Hospital Heidelberg Heidelberg, 03. Juni 2015

Our offer The Doctoral Student will work within a joint project with the University of Hamburg in the field of migrant health funded by the Deutsche Krebshilfe as well as be involved in other ...

[Mehr erfahren](#) | ★ Merken



PhD Studentships in Plant Biology

Ruhr University Bochum Bochum, 03. Juni 2015

Research group Professor Ute Krämer (Ruhr University Bochum, Germany) - Molecular Biology - Population Genomics Salary: 50-65% TVL 13 (min. 1,600 EUR monthly), no tuition fees, working and ...

[Mehr erfahren](#) | ★ Merken



8 PhD Positions in Computational Systems Biology in Berlin

Humboldt-Universität zu Berlin Berlin, 02. Juni 2015

Biology has developed into a quantitative, information-driven science. We are seeking doctoral students for the DFG-funded Research Training Group "Computational Systems Biology" (CSB) which ...

[Mehr erfahren](#) | ★ Merken

Wissenschaftlicher Mitarbeiter (m/w) in der Fakultät für Mathematik und Informatik, Lehrgebiet Mikro- und Nanophotonik

FernUniversität in Hagen Hagen, 28. Mai 2015

befristet zu besetzen. Die FernUniversität in Hagen ist die einzige staatliche Fernuniversität im deutschen Sprachraum. Sie bietet ihren Studierenden ein flexibles orts- und Studium unter ...

[Mehr erfahren](#) | ★ Merken



Doctoral Student Positions for the DFG Research Training Group Genes, Environment and Inflammation

University Medical Center Schleswig-Holstein Lübeck, Kiel, 28. Mai 2015

starting on 1st October, 2015, for a fixed term of 3 years. The DFG Research Training Group Genes, Environment and Inflammation is involved in cutting-edge research of the environmental on ...

[Mehr erfahren](#) | ★ Merken



Phd Position Department of Molecular and Applied Microbiology

Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute Jena, 26. Mai 2015



Why Germany?

- ✓ High level of research
- ✓ Rich tradition in research
- ✓ Low tuition
- ✓ Scholarship & Funding
- ✓ **located in the heart of Europe!!**



<http://en.wikipedia.org/wiki/Europe>

Universities in comparison

	# of University	Language	Tuition (yearly)	Scholarship Opportunity (monthly)
Japan	>700	>70 programs in English Japanese	600,000-1,200,000 yen	Very competitive (JSPS)
Germany	>450 (mostly public)	>800 programs in English German	<20,000 yen	moderate (most ph.d students receive salary)
Canada	>90	English or French	200,000-1,300,000 yen	moderate

Universities/Research in comparison

	Mobility	Diversity (students)	Research funding	Research level
Japan	Low	4 % (mostly Asian national)	moderate	Moderate
Germany	High	12% (mostly European national)	moderate	Moderate
Canada	Low	10% (diverse)	competitive	Moderate

Life in comparison

	Cost (monthly)	Culture & Society	Integration	Plus point
Japan	100-150 K yen	-	-	✓ Safe&Easy ✓ Home
Germany	100-150 k yen	✓ Traditional to alternative ✓ Sophisticated	moderate	✓ Rich in culture ✓ Extra- language
Canada	100-150 K yen	✓ Mainly modern alternative	easy	✓ Respect/tol erant for being different ✓ English

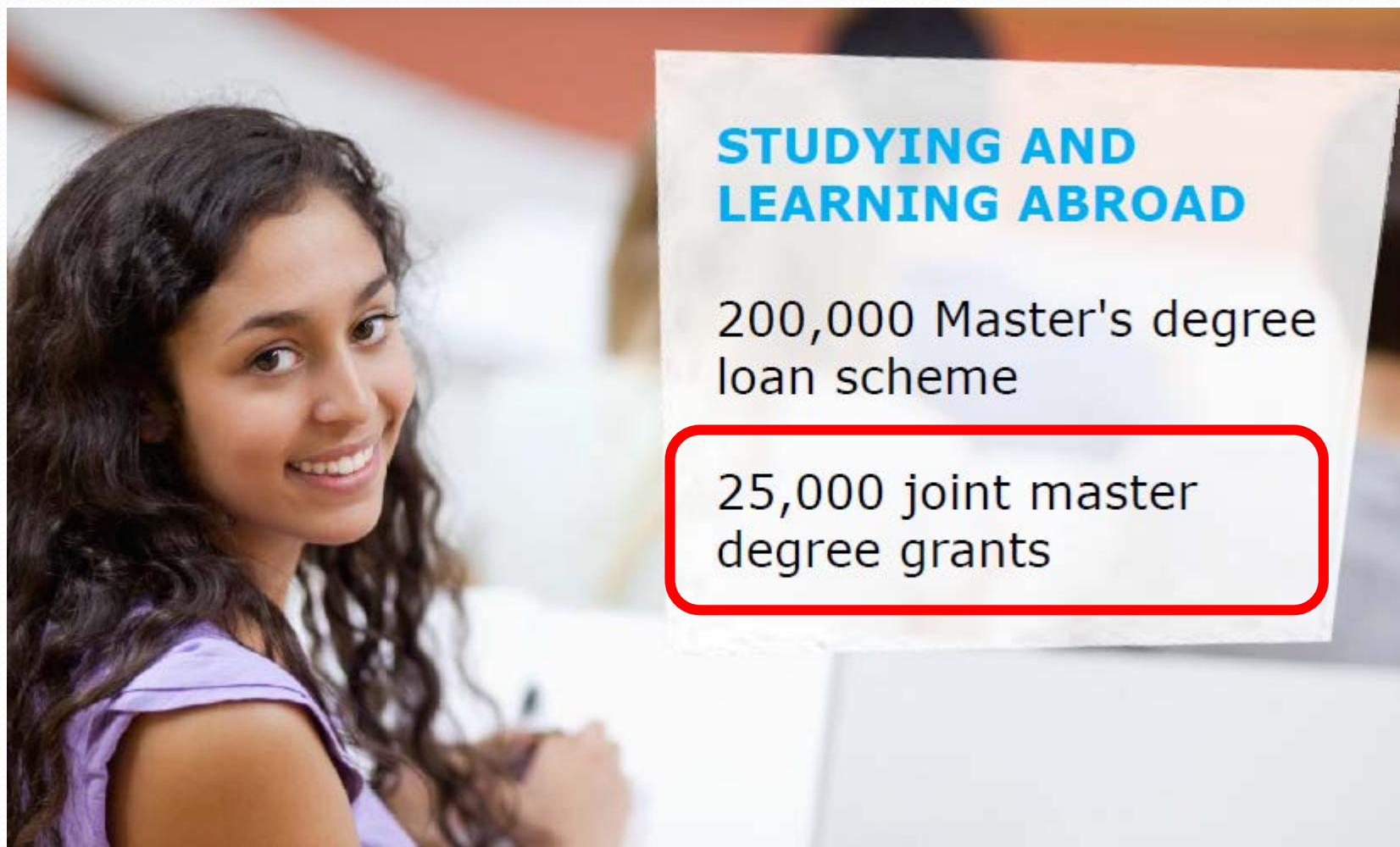
Erasmus +



ABOUT ERASMUS+

Increased learning opportunities abroad for students and teachers

EU grants and training for about 4 million people and 125,000 institutions



**STUDYING AND
LEARNING ABROAD**

200,000 Master's degree
loan scheme

25,000 joint master
degree grants



STAFF MOBILITY

800,000 educators and youth workers will acquire new teaching and learning methods abroad

Erasmus Mundus Joint Master program

e.g. “M.Sc. Chemical Innovation and Regulation”

Participating Universities

- University of Algarve (Portugal)
- University of Barcelona (Spain)
- University of Bologna (Italy)
- Heriot Watt University (UK)

Typical Program Structure

2 year Program (1 year taught course and 1 year of research project and thesis)

◆ **1st year:** Classes

◆ **2nd year:** moves to a different University (+ 1-2 months in associated partner institutions either in Europe or other parts of the world)

Scholarships & Fellowships

Joint Master Program

- ◆ up to 65,000 yen (500 Euro) monthly for 2 year
- ◆ Annually > 800 scholarships

Joint Ph.D program

- ◆ Approx. 200,000 yen monthly salary for 3 ears
- ◆ Annually > 70 positions



Thank you!!