

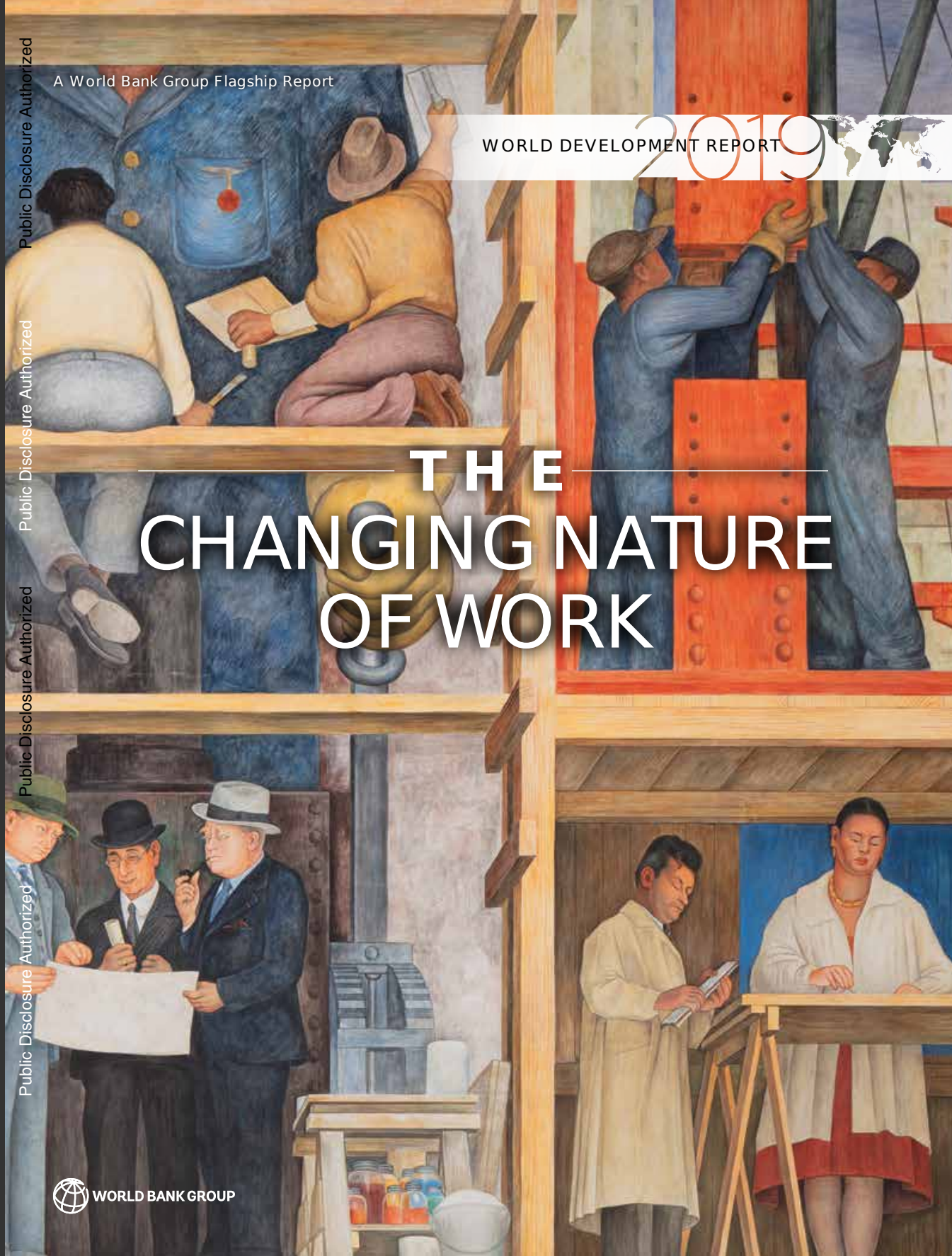
Human Capital

An experience in Ceará



Tarcísio Pequeno
President





A World Bank Group Flagship Report

WORLD DEVELOPMENT REPORT

2019

Public Disclosure Authorized

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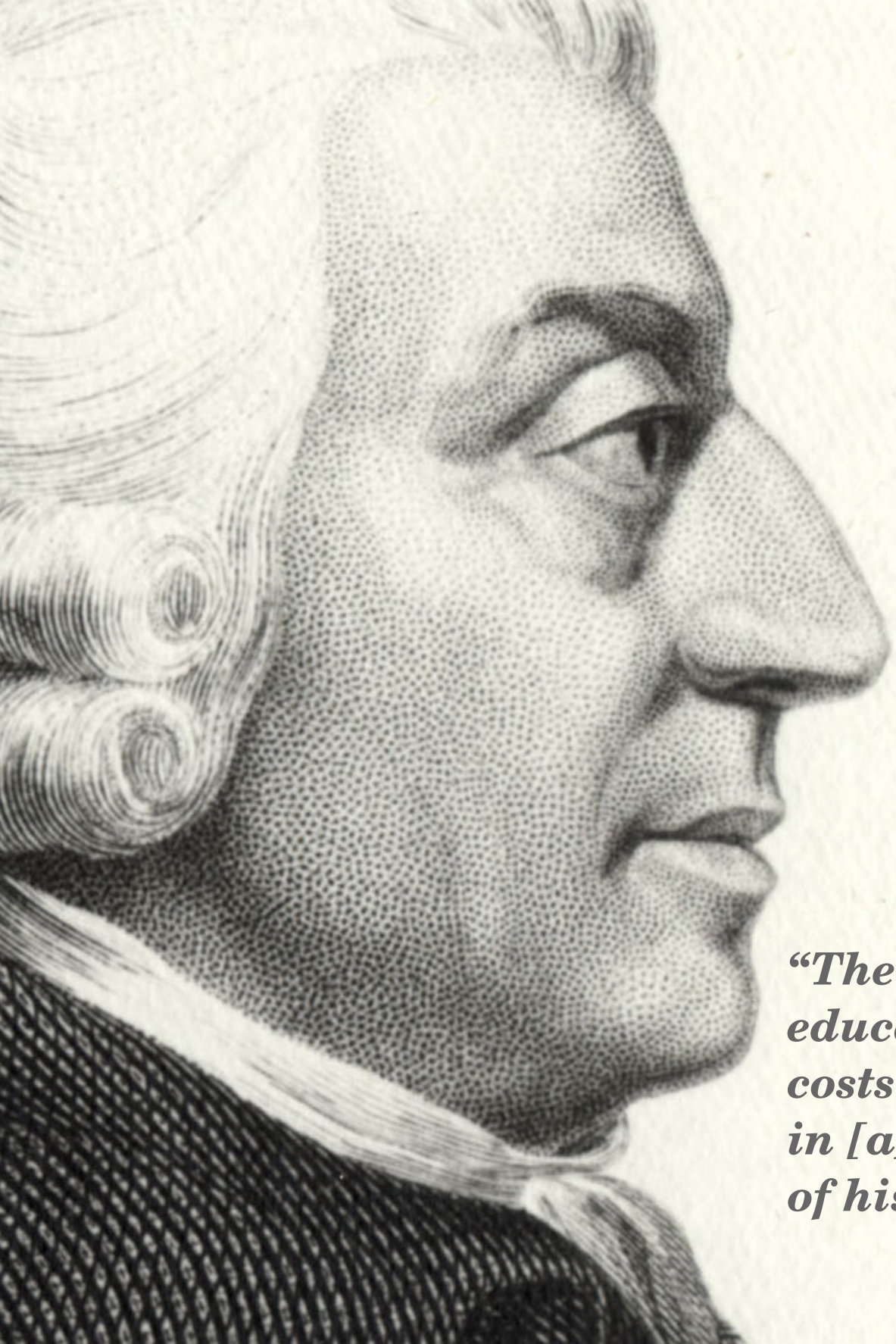


WORLD BANK GROUP

CHAPTER 3

Building human capital

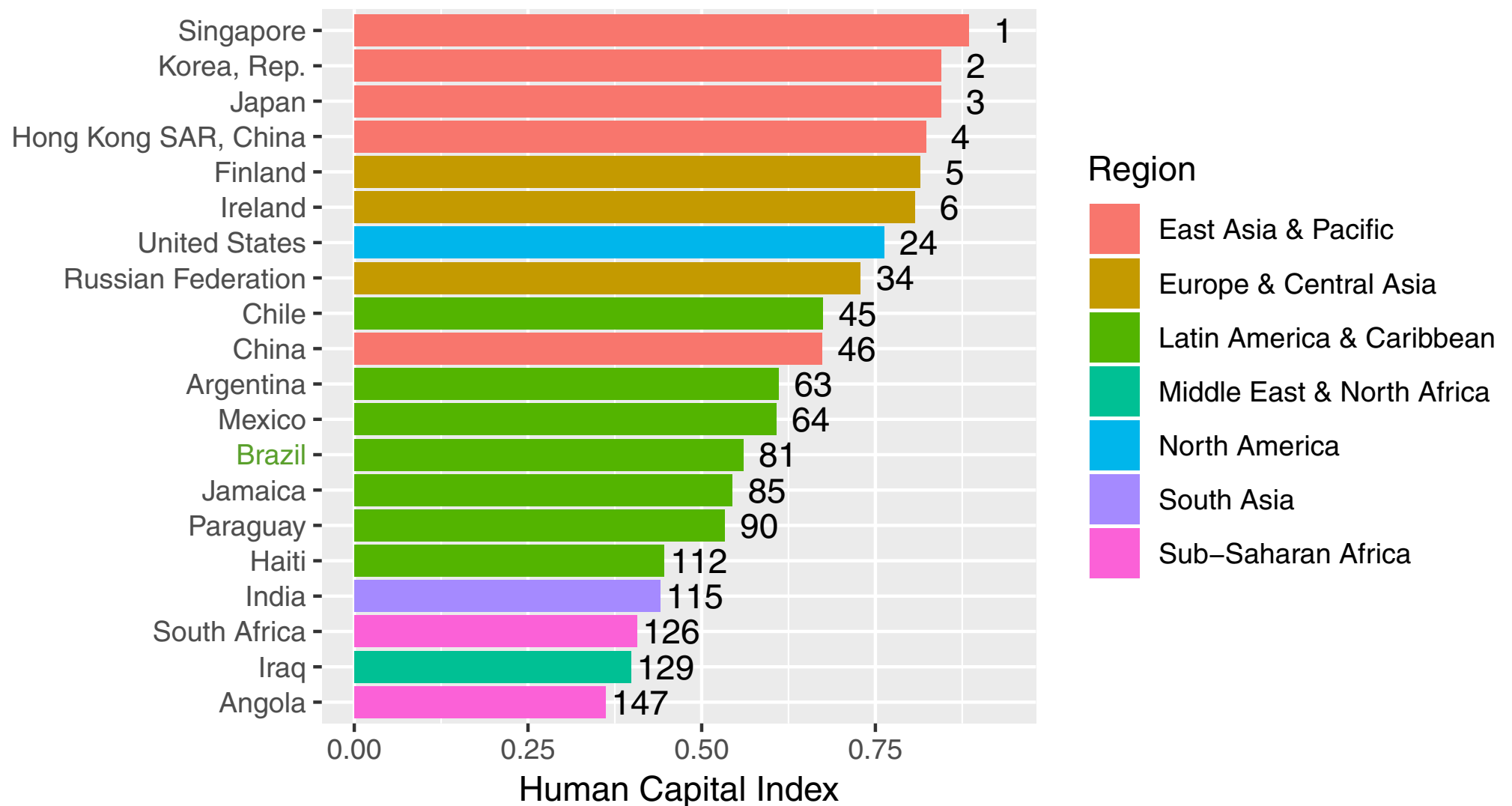




“The acquisition of . . . talents during . . . education, study or apprenticeship, costs a real expense, which [is] capital in [a] person. Those talents [are] part of his fortune [and] likewise that of society.”

ADAM SMITH

Human Capital Index



Source: The World Bank Data Catalog (2018)

Science & Technology in Ceará

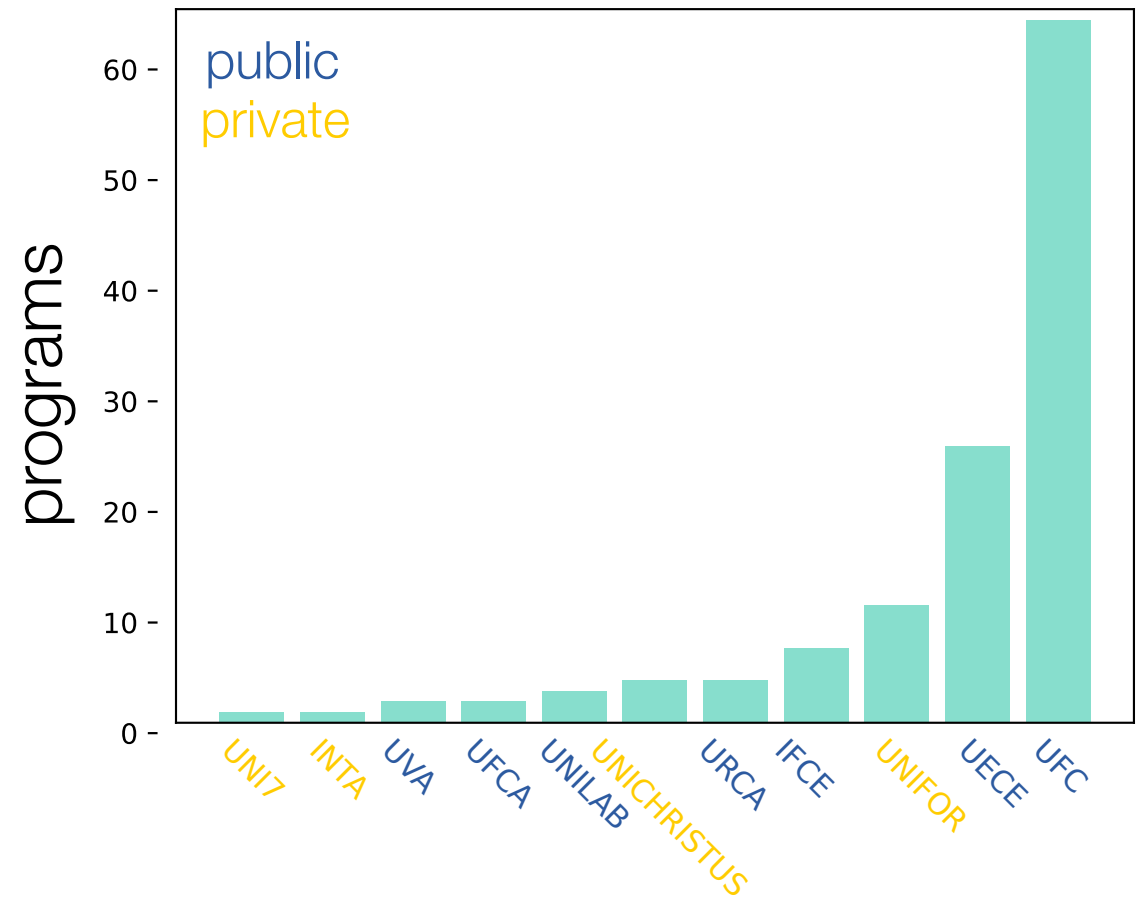
Universities: 11

Postgraduate Education Programs: 127

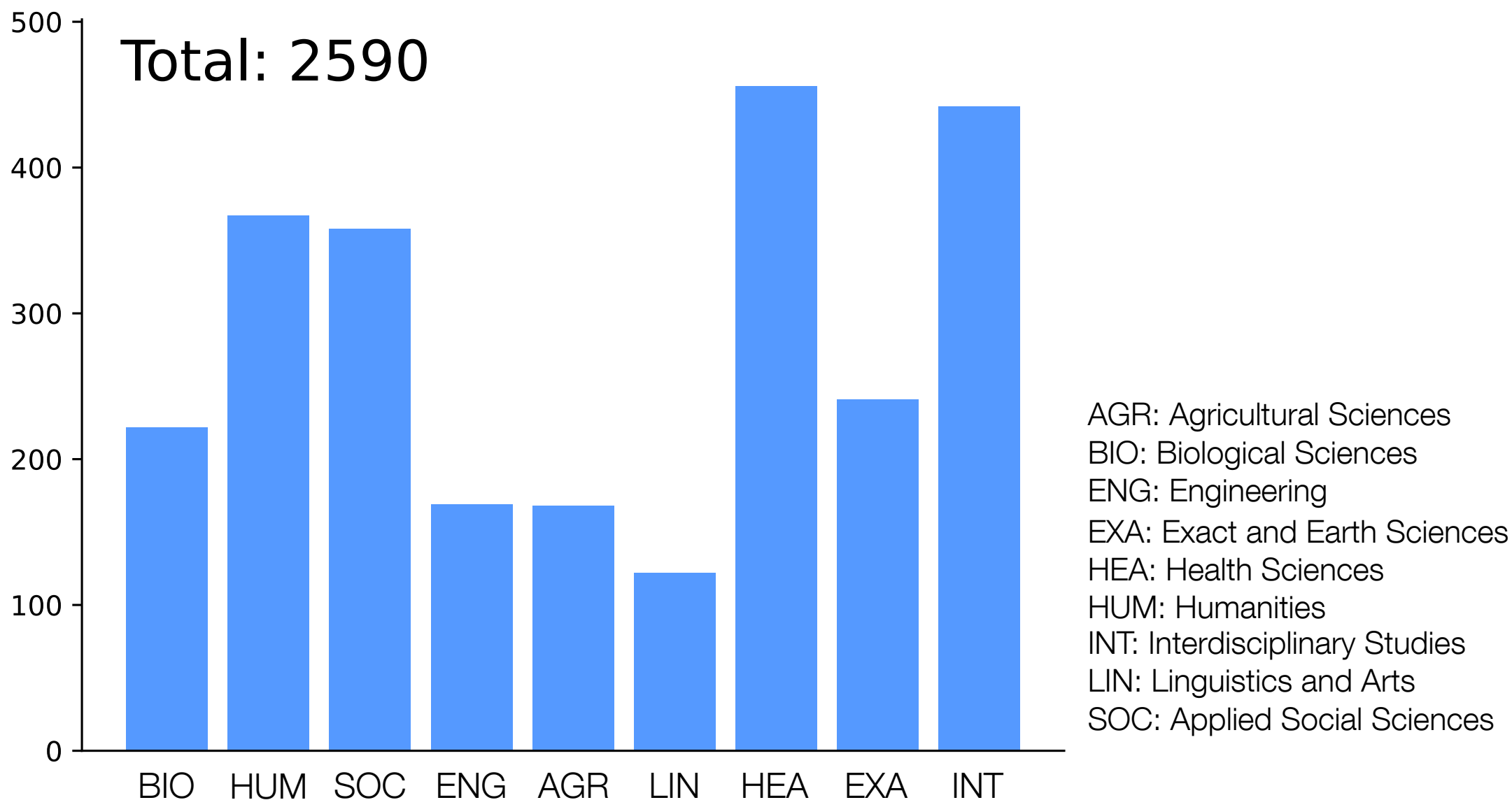
Degrees: 182

Master's degree: 125

Doctoral degree: 57

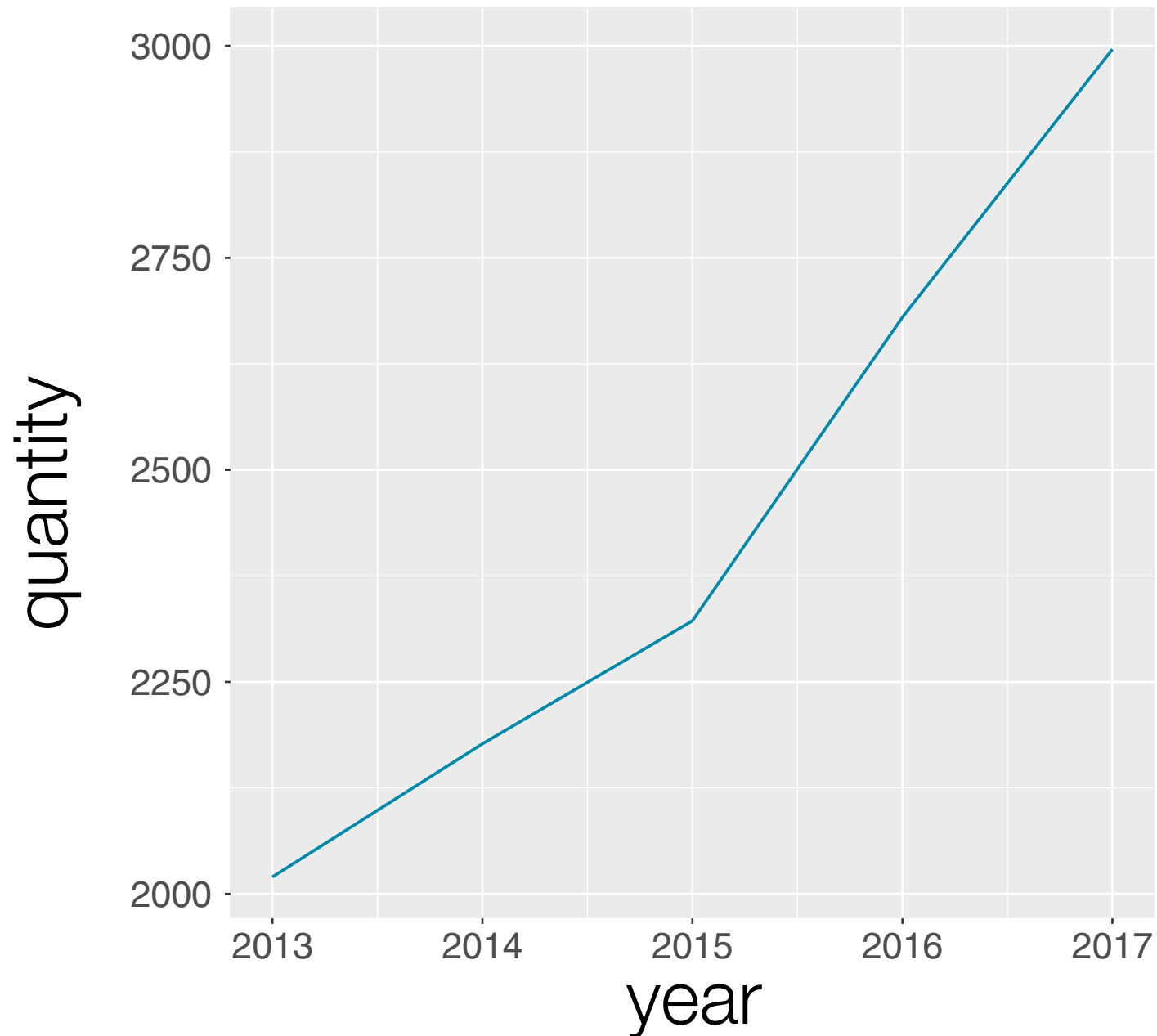


Faculties on Postgraduate Programs

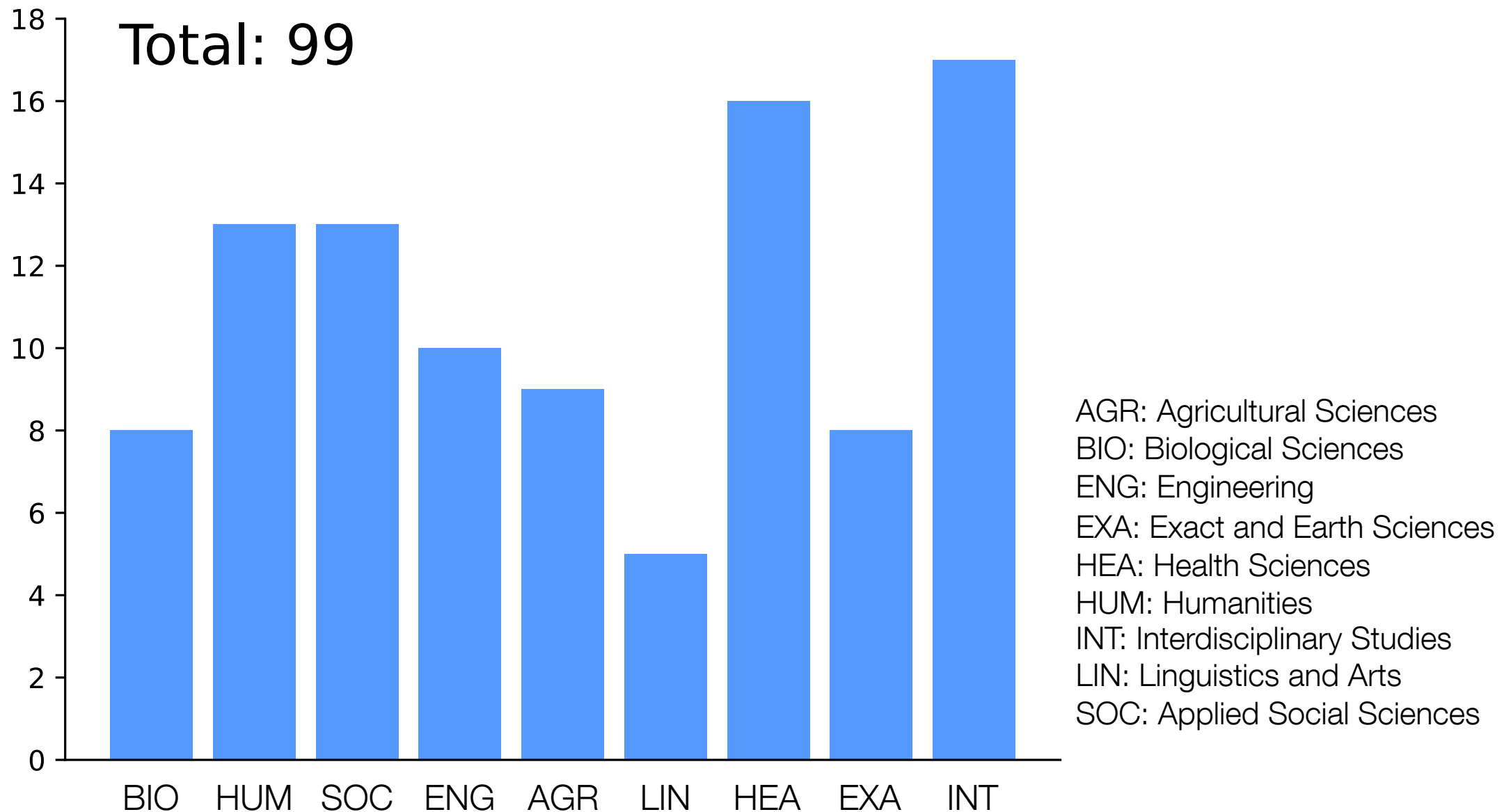


Faculties on Postgraduate Programs

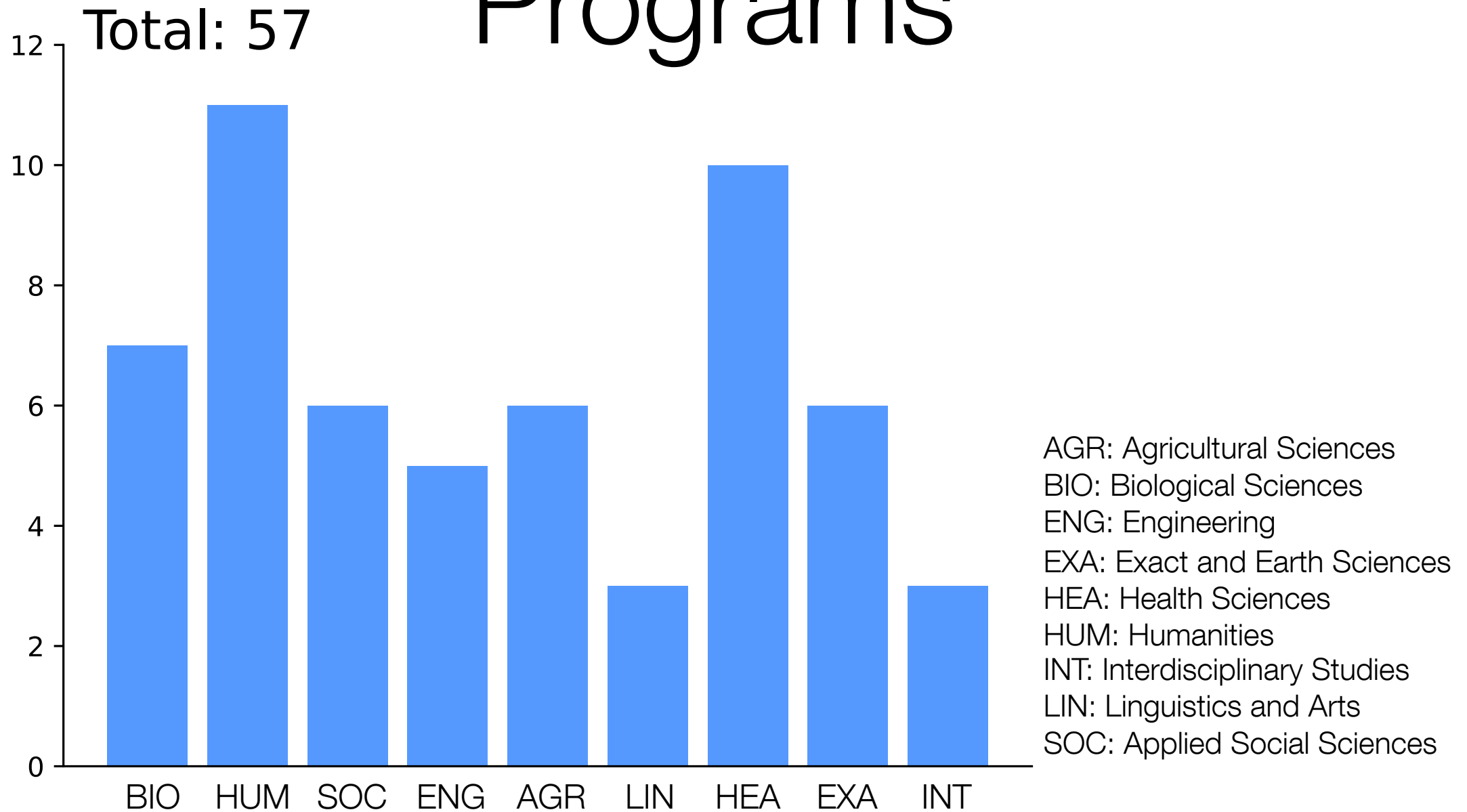
Time Series



Master's Degree Programs

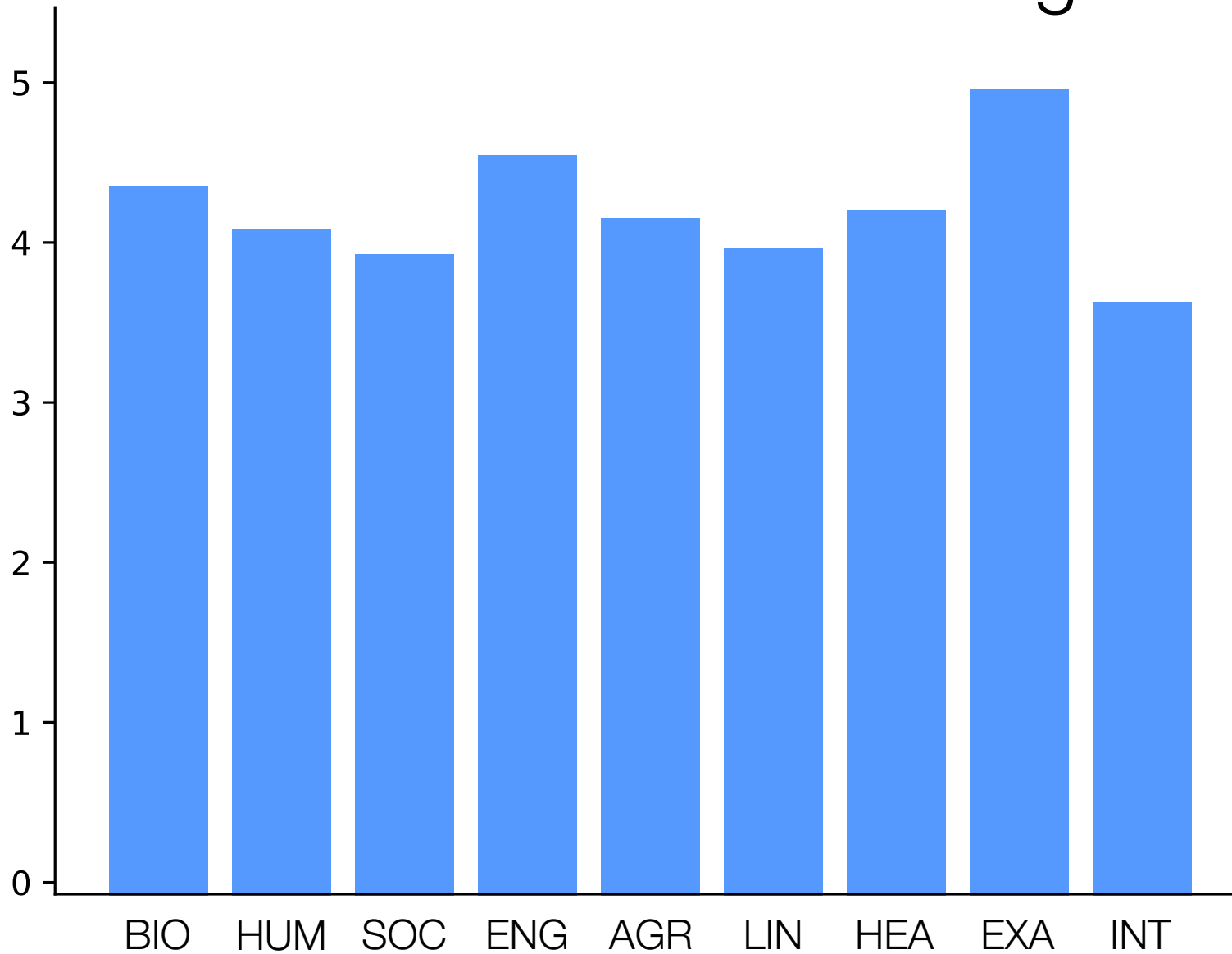


Doctorate Degree Programs



Quality Evaluation

Master's Degree

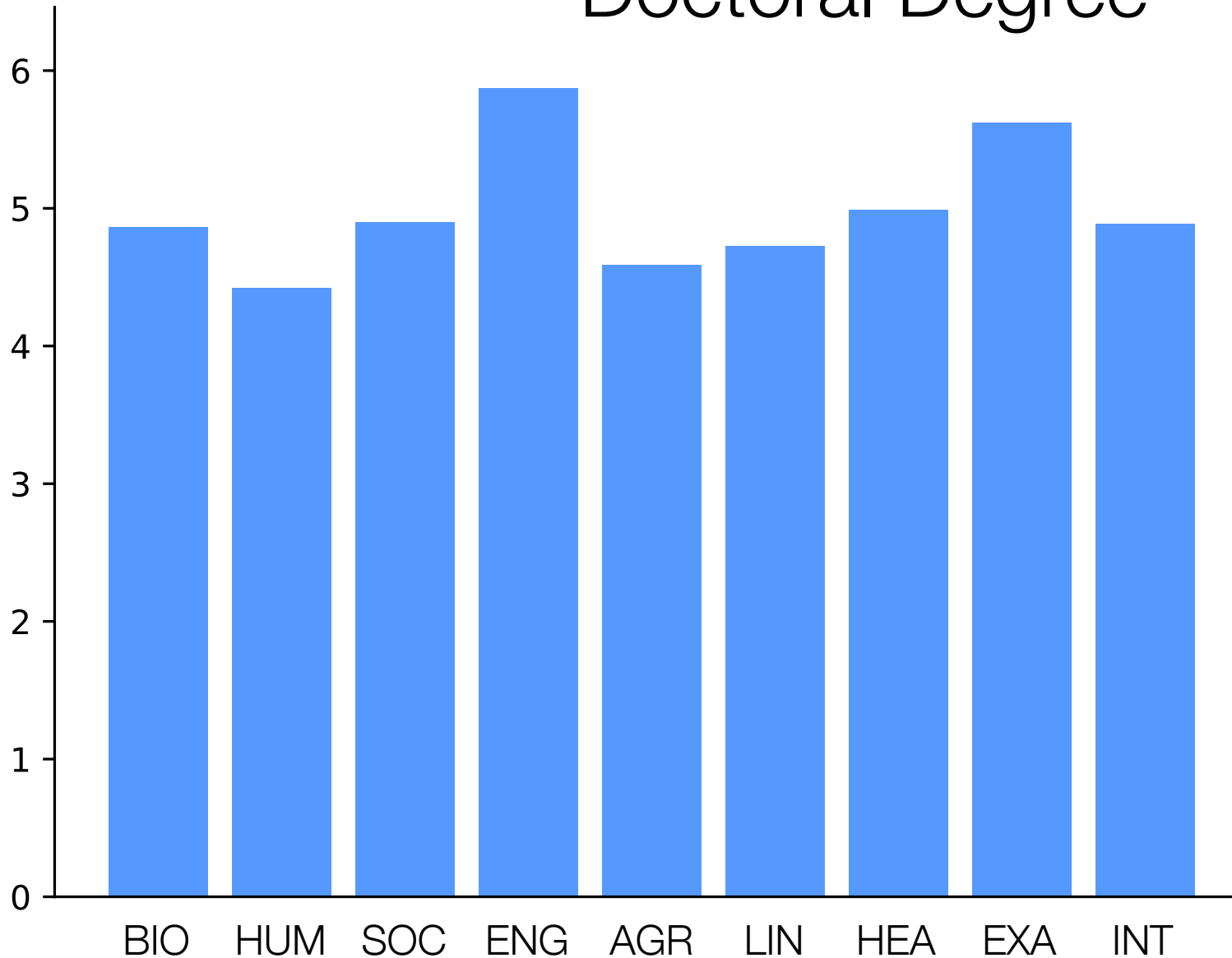


AGR: Agricultural Sciences
BIO: Biological Sciences
ENG: Engineering
EXA: Exact and Earth Sciences
HEA: Health Sciences
HUM: Humanities
INT: Interdisciplinary Studies
LIN: Linguistics and Arts
SOC: Applied Social Sciences

Range: 3-5
Average: 4.25

Quality Evaluation

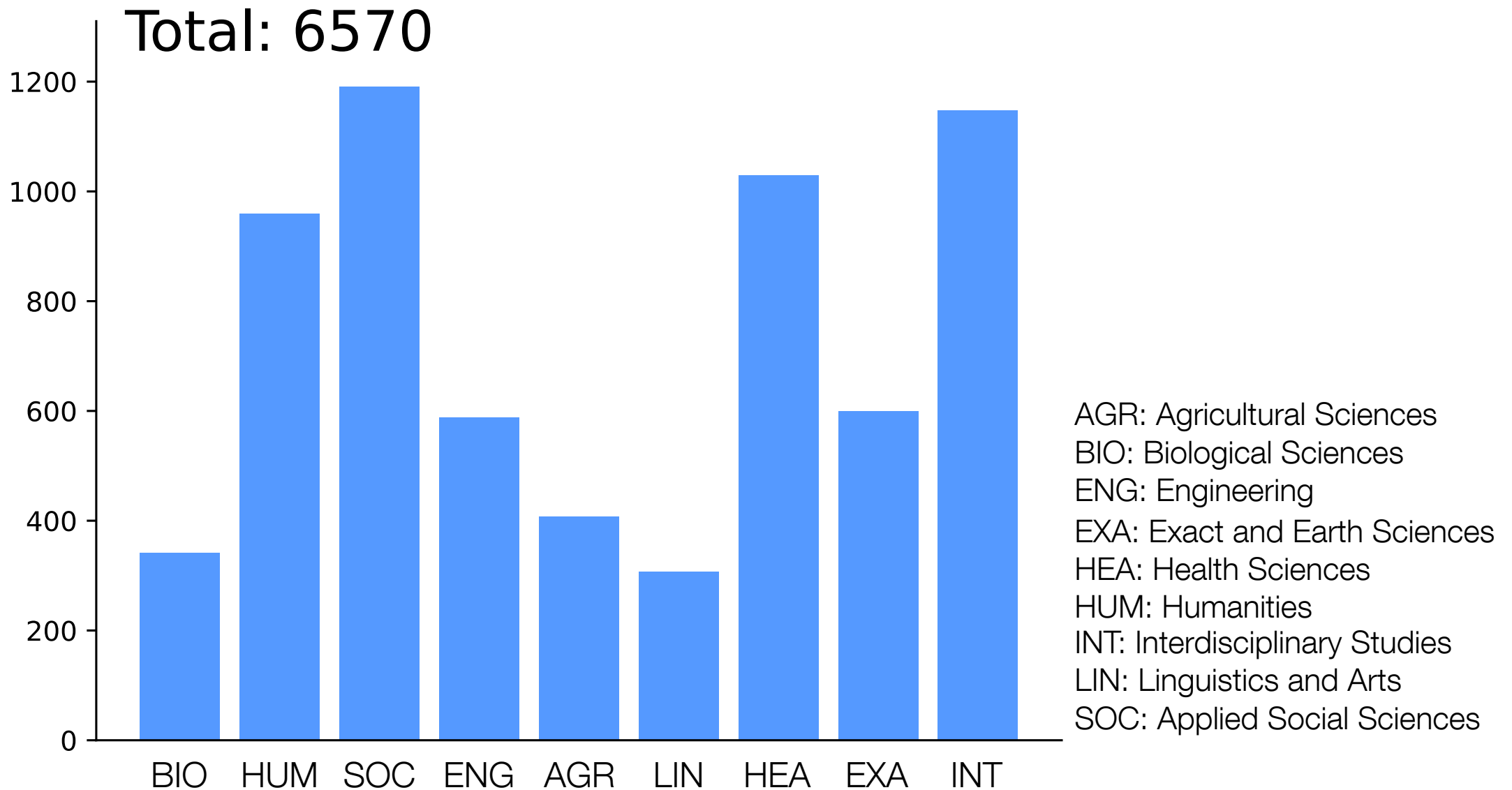
Doctoral Degree



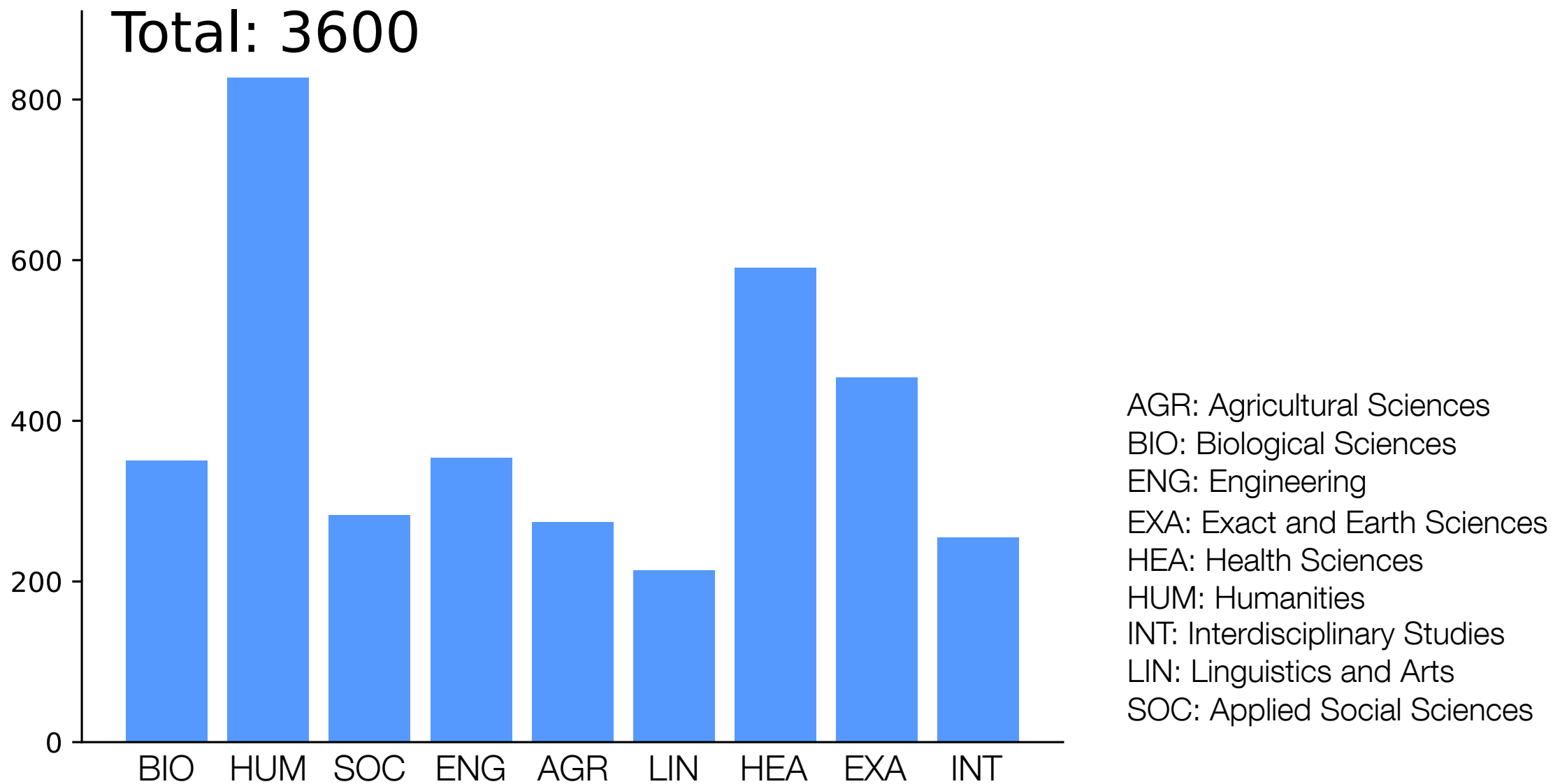
AGR: Agricultural Sciences
BIO: Biological Sciences
ENG: Engineering
EXA: Exact and Earth Sciences
HEA: Health Sciences
HUM: Humanities
INT: Interdisciplinary Studies
LIN: Linguistics and Arts
SOC: Applied Social Sciences

Range: 4-7
Average: 4.95

Master's Students

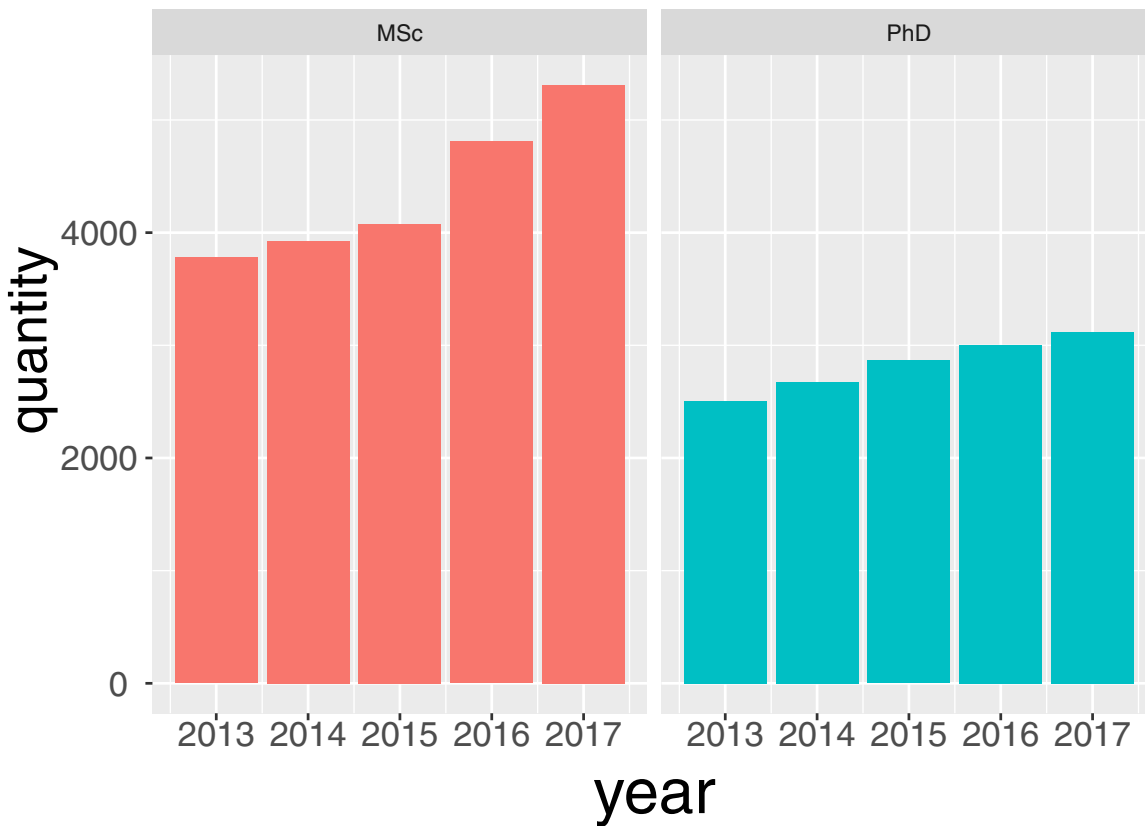


Doctorate Students

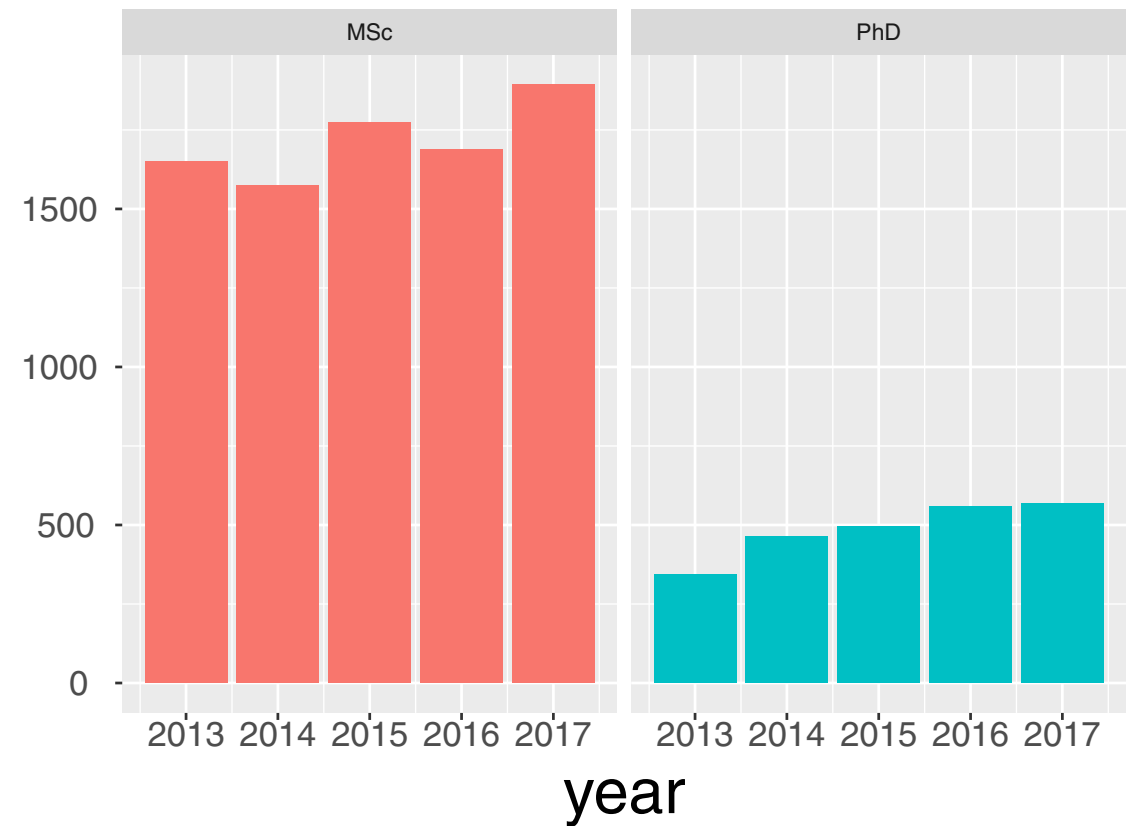


Postgraduate Students in Ceará

Students



Concluded



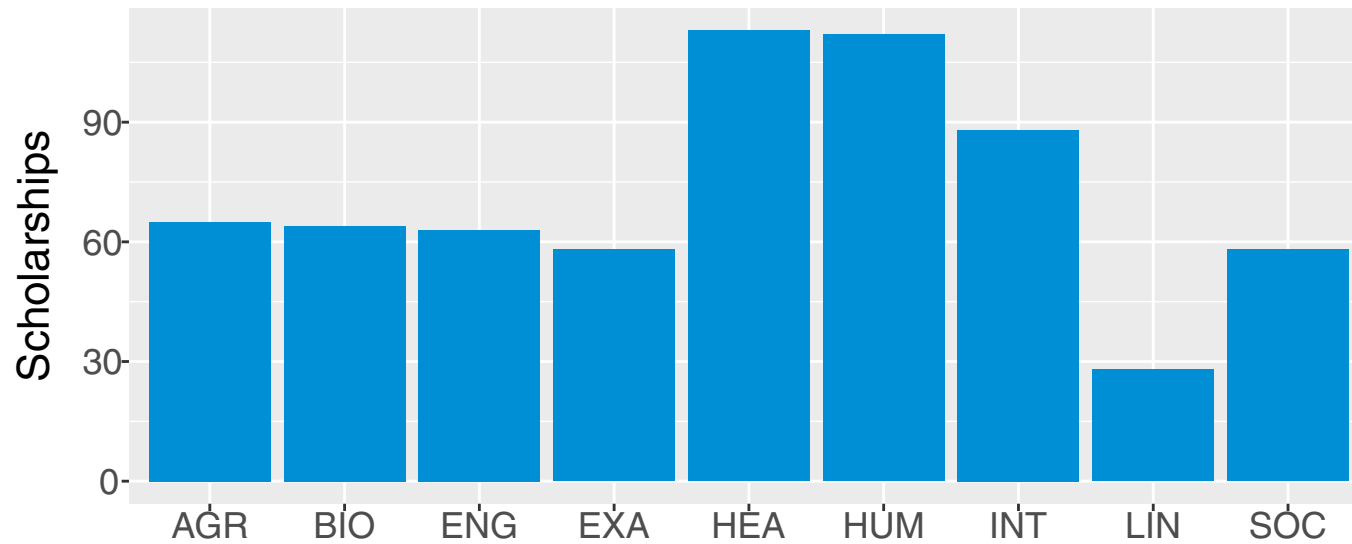
Degree



FUNCAP Postgraduate Scholarships (2018)

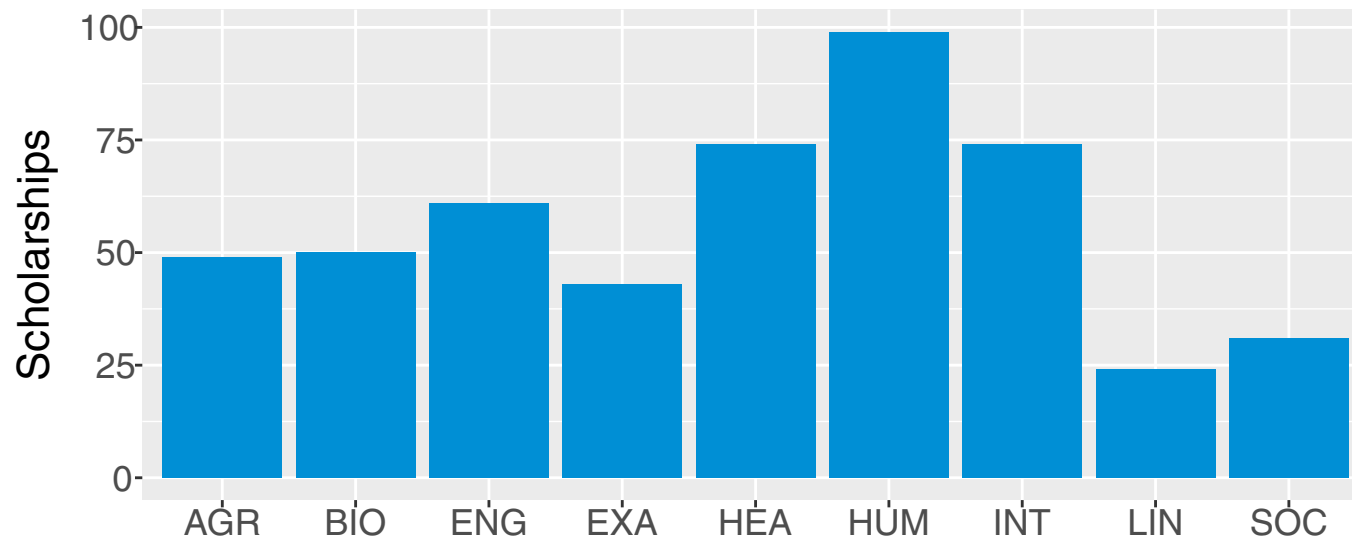
Master's Degree Programs

Total: 651



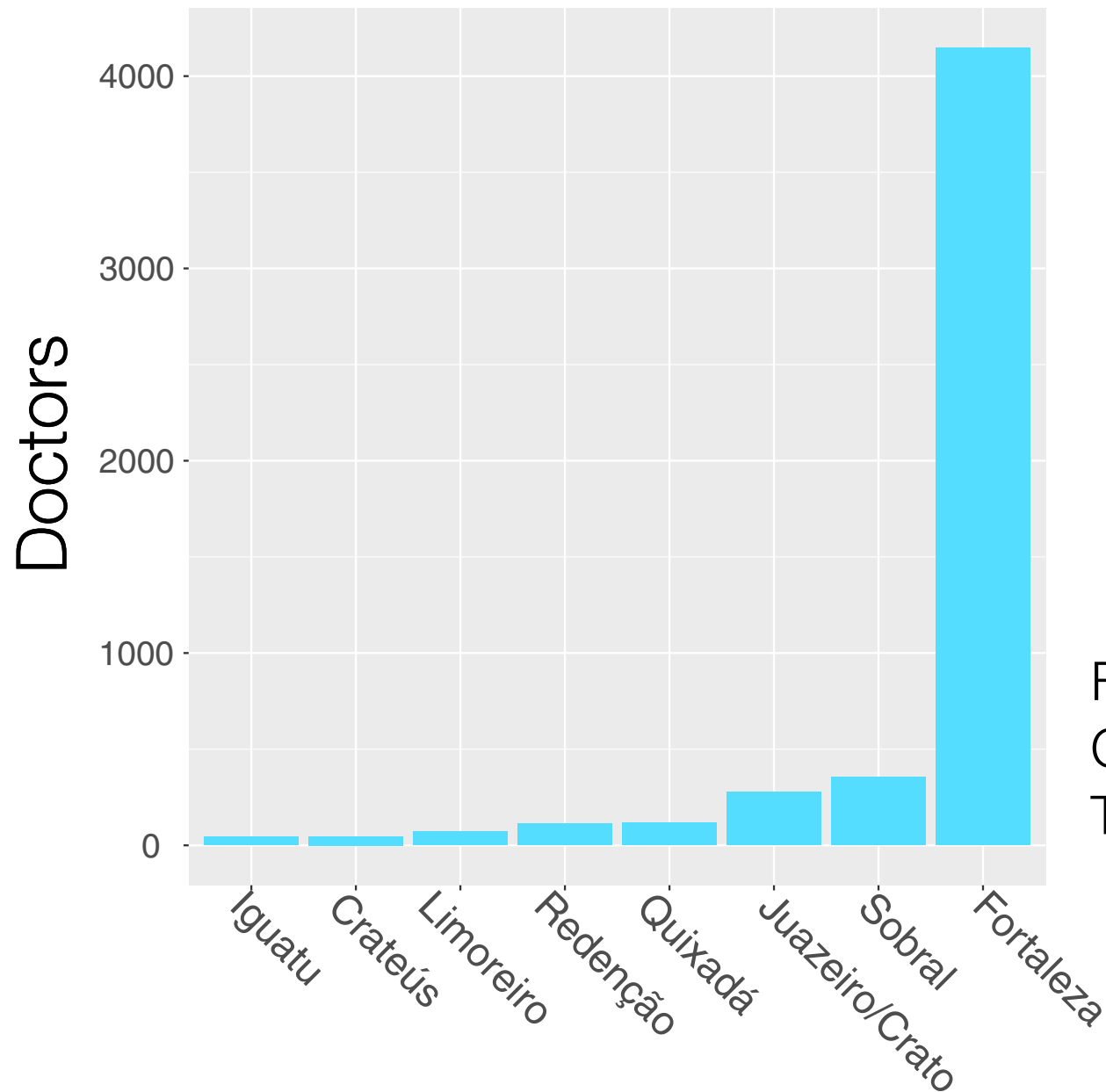
Doctorate Degree Programs

Total: 482



AGR: Agricultural Sciences
BIO: Biological Sciences
ENG: Engineering
EXA: Exact and Earth Sciences
HEA: Health Sciences
HUM: Humanities
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Regional Distribution

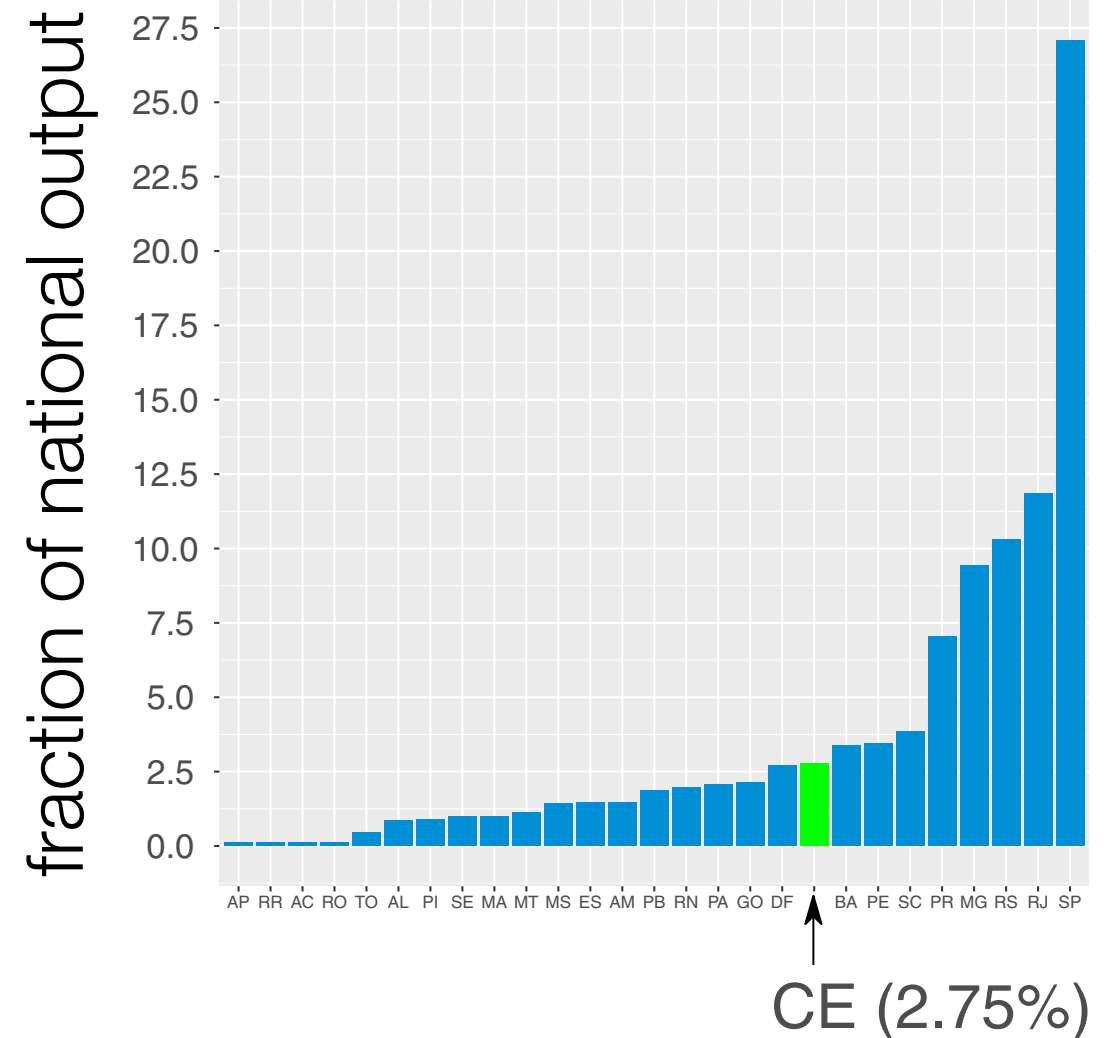
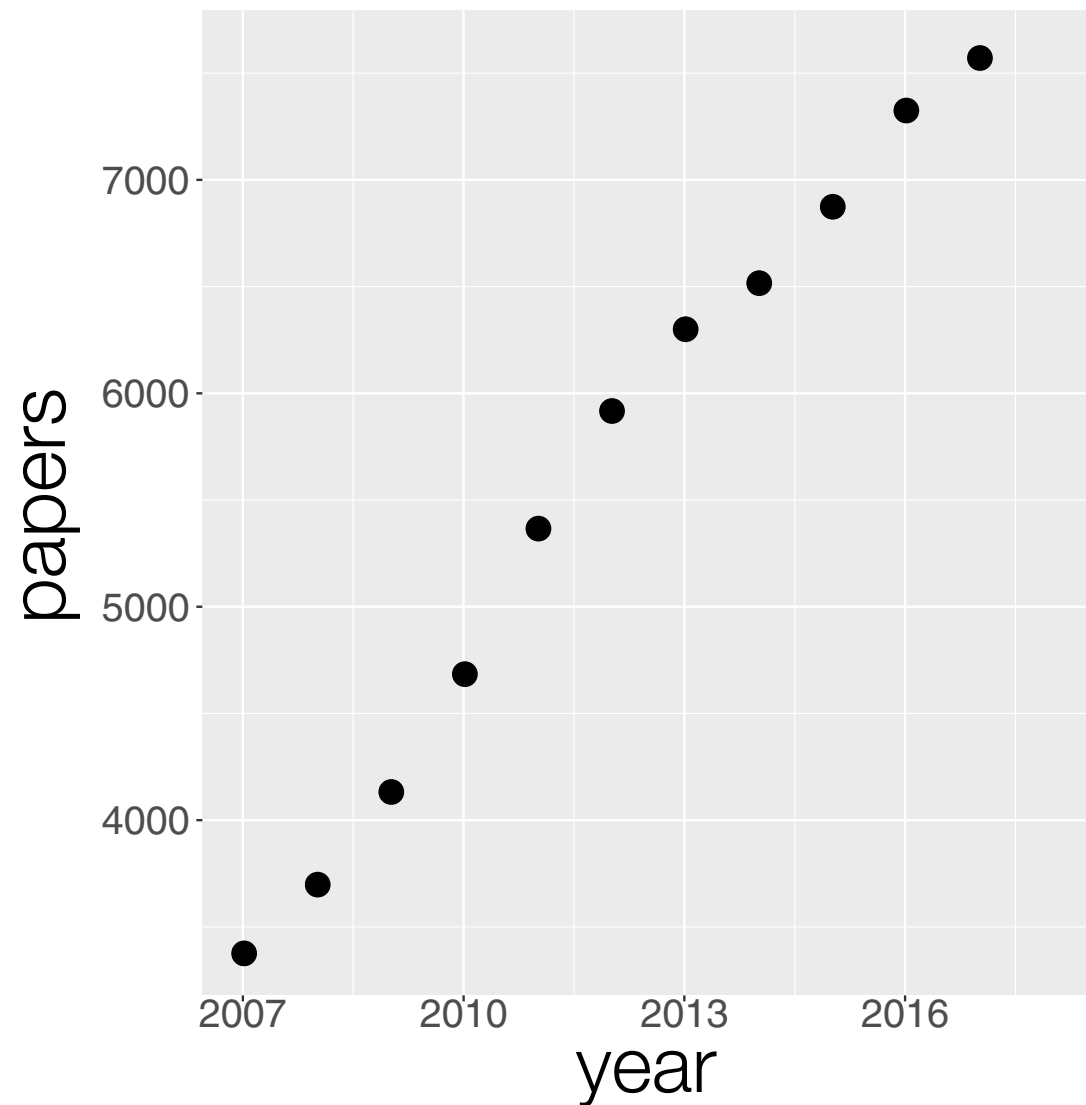


Fortaleza and metropolitan area: 4148

Other areas: 1408

Total: 5556

Academic Publishing (journals)



And what is this good for?

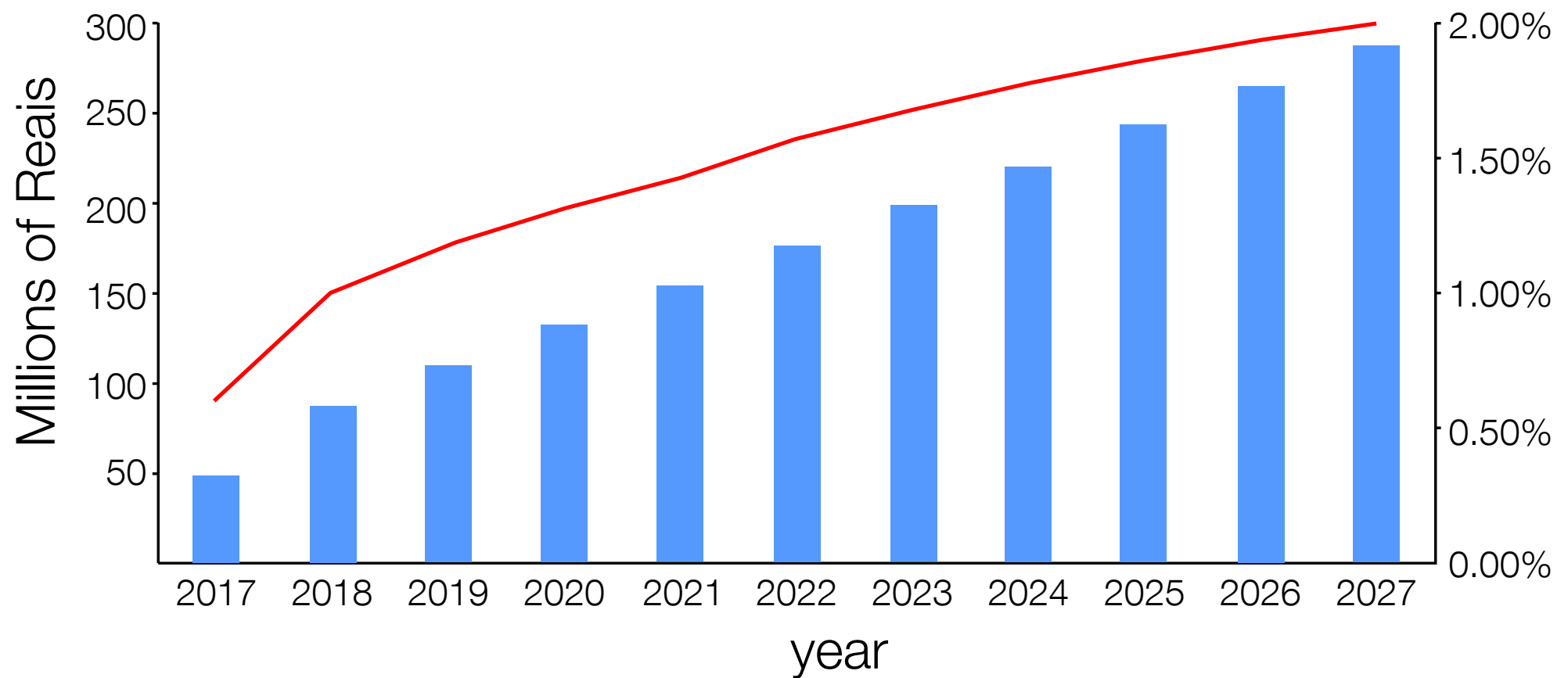
We don't really know, we do pure science.

Oh great! We put our noses to the grindstone pushing stones and pulling animals while you entertain yourselves doing useless things!



tropek 2011

FUNCAP's funding schedule for the decade



Chief Scientists

Chief Scientist	Field	Expertise	Institution
Prof. José Soares de Andrade Jr.	Data Science	Physics	SEPLAG/IPECE
Prof. José Antônio Macêdo	Public Security	Computer Science	SSPDS
Prof. Joge Herbert Soares de Lira	Education	Mathematics	SEDUC
Prof. Andrea Caprara	Health	Medicine	SESA
Prof. Francisco de Assis Souza Filho	Water	Hydraulic Engineering	SRH
Prof. Raul Cruz Izquierdo	Sea Economy	Tropical Marine Science	SEAPA
Prof. Fernando Antunes	Energy	Electrical Engineering	SEINFRA

Chief Scientist Projects

Institution	Project	PhD's	MSc's	Members
SEPLAG (IPECE-CAPP)	Evaluating public policies for coping poverty in Ceará	3	1	7
SEPLAG (IPECE-CAPP)	Comparative evaluation of Ceará public administration efficiency	3	1	4
SEPLAG (IPECE-CAPP)	Evaluating the importance of the public sector in the performance of Ceará exporting companies	2	2	6
SEPLAG (IPECE-CAPP)	Mining and Analysis of state data: a systemic view	3	3	6
SSPDS (Security)	Scientific and Technical Intelligence in Public Security	10	4	50
SEDUC (Education)	Math Education Qualification in Ceará	15	7	23
SEDUC (Education)	Populariaztion of Science	0	1	3
SEDUC (Education)	Light of Knowledge Project (adult literacy)	0	4	7
SEDUC (Education)	Data Analysis on Scientific and Technological Training in Secondary and Higher Education	1	0	4
SESA (Health)	Aedes in Focus Project	8	3	25
SEINFRA (Power Supply)	Development of Technologies for Energy Harnessing from Biogas Coming from Anaerobic Treatment of Water Waste	1	0	4
SRH (Water Supply)	Studies and Technological Solutions Aiming Resilience to Drought	3	5	9
SRH (Water Supply)	Strategies to Rationalize the Usage and Expansion of the Water Supply in the State of Ceará	1	0	1
SEAPA (Architecture and Fishing)	Fishery Assessment, Ordering and Commercialization of Live Lobster	1	0	1

Chief Scientist Projects

Institution	Project	PhD's	MSc's	Members
SEAPA (Architecture and Fishing)	Tilapia Biotechnological Package - Domestication of Perifiton as an Alternative to Improvement for Nile Tilapia Farming	0	1	1
SEAPA (Architecture and Fishing)	Shrimp Biotechnological Package - Bacteria Bioprospection for Probiotic Consortium for Usage in Sea Shrimp Farming	1	1	2
SEAPA (Architecture and Fishing)	Development of Tuna Fishing Production Chain	0	1	1
SEAPA (Architecture and Fishing)	Evaluation of Performance of Vegetable Production (Tomato and Pepper) from Physical-Chemical Parameters from Water Waste from Tilapia Farming Tanks	0	1	1
SEAPA (Architecture and Fishing)	Biotechnological Platform in the Production of Cloned Cocoa Seedlings	1	0	1
SEAPA (Architecture and Fishing)	Adding Value To traditional and non-traditional Species (Pitahaya, Blackberry) by Means of Identification of Bioactive Compounds	1	0	1
SECITECE (CITINOVA - NUTEC)	IoTNet4 - Fortaleza's Internet of Things	2	5	8
TCE	Creation of Public instrument for Evaluation of Public Policies by the Ceará Court of Auditors	2	1	3
TCE	Combat and Prevention of Risks and Frauds in the Public Sector	1	1	2



Obama's former chief data scientist, DJ Patil, joins Venrock as an adviser

Posted Nov 14, 2017 by [Megan Rose Dickey \(@meganrosedickey\)](#)



DJ Patil, the chief data scientist under President Barack Obama, [has joined Venrock Capital](#) as an adviser. Patil has [long been a proponent](#) of using data science and artificial intelligence to solve some of the nation's biggest problems around areas including medicine, policing and the criminal justice system.



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Chief Scientist Program

