



GIS 研究生留学选择：中国学生视角

Choosing GIS graduate programs from afar: Chinese students' perspectives

王亦康

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Web: <https://yikang.site/>

Slides: <https://yikang.site/uploads/gispheretalk.pdf>



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Education Background

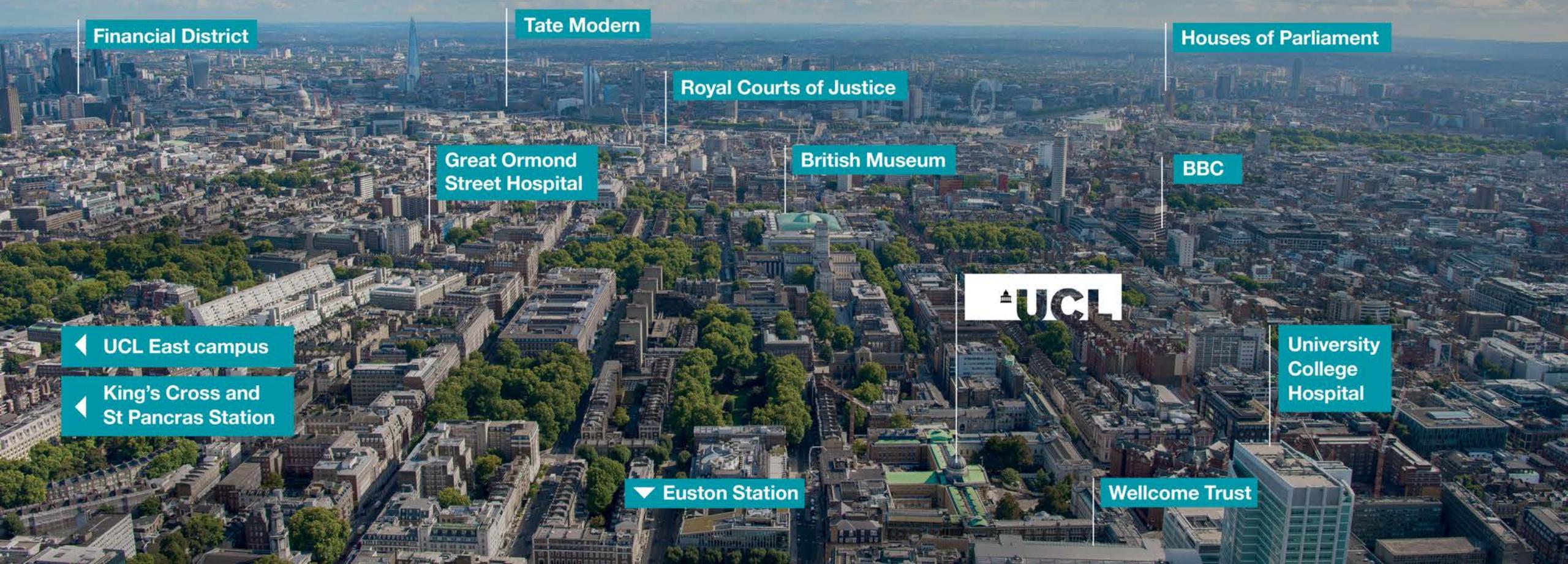
- 2021 – 2025 | University College London (UCL)
 - PhD at Centre for Advanced Spatial Analysis (CASA)
 - Supervised by Dr Chen Zhong and Prof Michael Batty
 - Research on Human Mobility, Spatial Causal Inference, and Urban Inequality
- 2020 – 2021 | Imperial College London
 - MSc in Applied Computational Science and Engineering
 - Master Thesis: Multi-sensor fusion navigation for robots
- 2017 – 2020 | Wuhan University
 - BEng in Geodesy and Geomatics Engineering (GIS branch)



Imperial College
London



Our community sits at the heart of one of the world's most dynamic cities.





There are three major units at UCL that operate GIS-related research:

1) The Bartlett Centre for Advanced Spatial Analysis (CASA)

- Focuses on urban studies, complex systems, visualization, and multi-intelligent systems

2) Civil, Environmental and Geomatic Engineering (CEGE)

- Focuses on spatio-temporal data mining, GeoAI, 3D GIS, navigation, BIM

3) Department of Geography

- Focuses on demographics, consumer data analysis/spatial analysis, and remote sensing



- Centre for Advanced Spatial Analysis (CASA) 由 Michael Batty 创立于1995年，旨在利用建模和数据科学、城市环境感知、可视化和计算方面的方法和理念，引领城市科学的发展
- CASA 联系紧密但跨学科性很强，研究者包括物理学家、规划师、地理学家、经济学家、数据科学家、建筑师、数学家和计算机科学家
- 我们的研究涉及多个尺度：从低功率传感器到卫星遥感
- 开设3个硕士课程：
 - Urban Spatial Science MSc (Master of Science)
 - Urban Spatial Science MRes (Master of Research)
 - Connected Environments MSc
- 欢迎硕士、博士、联合培养博士、博后和访问学者



Urban Mobility Group at CASA



Urban Mobility Group

- 1名PI: 钟晨老师
- 1名访问学者
- 3名博士后
- 5名博士生

来自7个国家

多元背景: GIS, 自然地理, 土木工程, 海洋科学, 环境政策, 软件工程, 数学.....

The realTRIPS project



Human location data

- individual level sensors data.
e.g., travel card data, social media data, mobile phone data...



Computational methods

- spatial analysis, machine learning, (explainable) GeoAI, causal inference, urban models...



Urban contexts

- London, Shenzhen, Nairobi, Singapore, Beijing...
- transport and land use development, e.g., urban spatial structure, segregation, accessibility, inequality ...

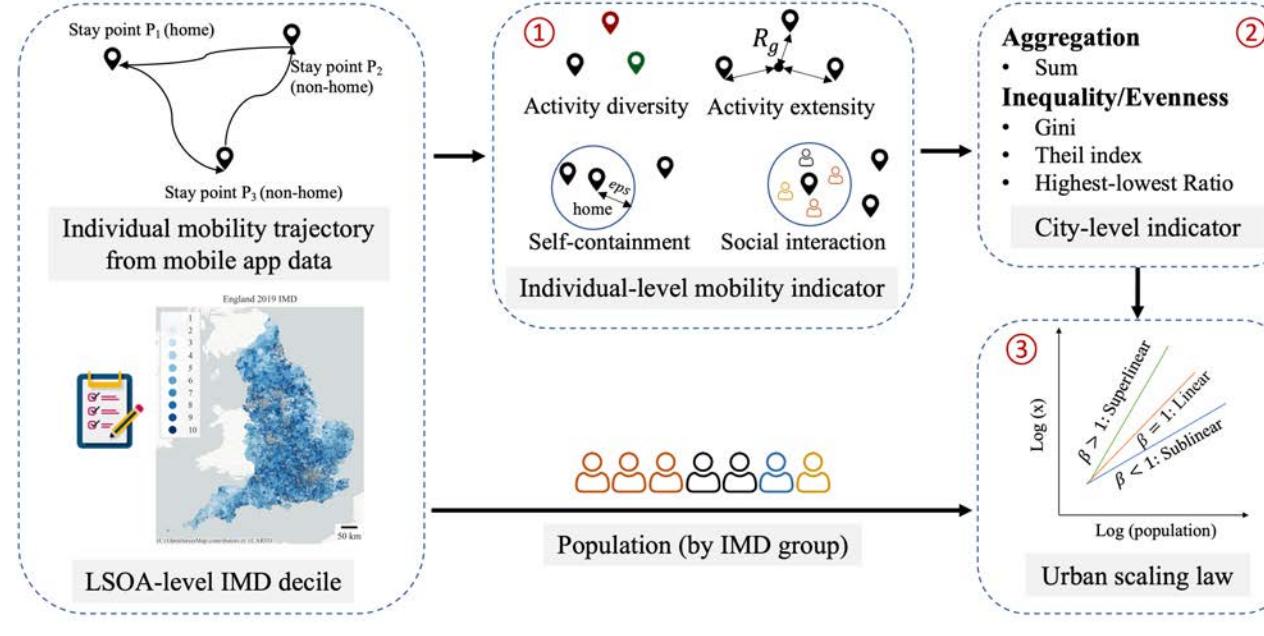
Redefining Variability: EvALuating Land Use and TRansport Impacts on Urban Mobility PatternS (**realTRIPS**)
Website: smartcityanalysis.com



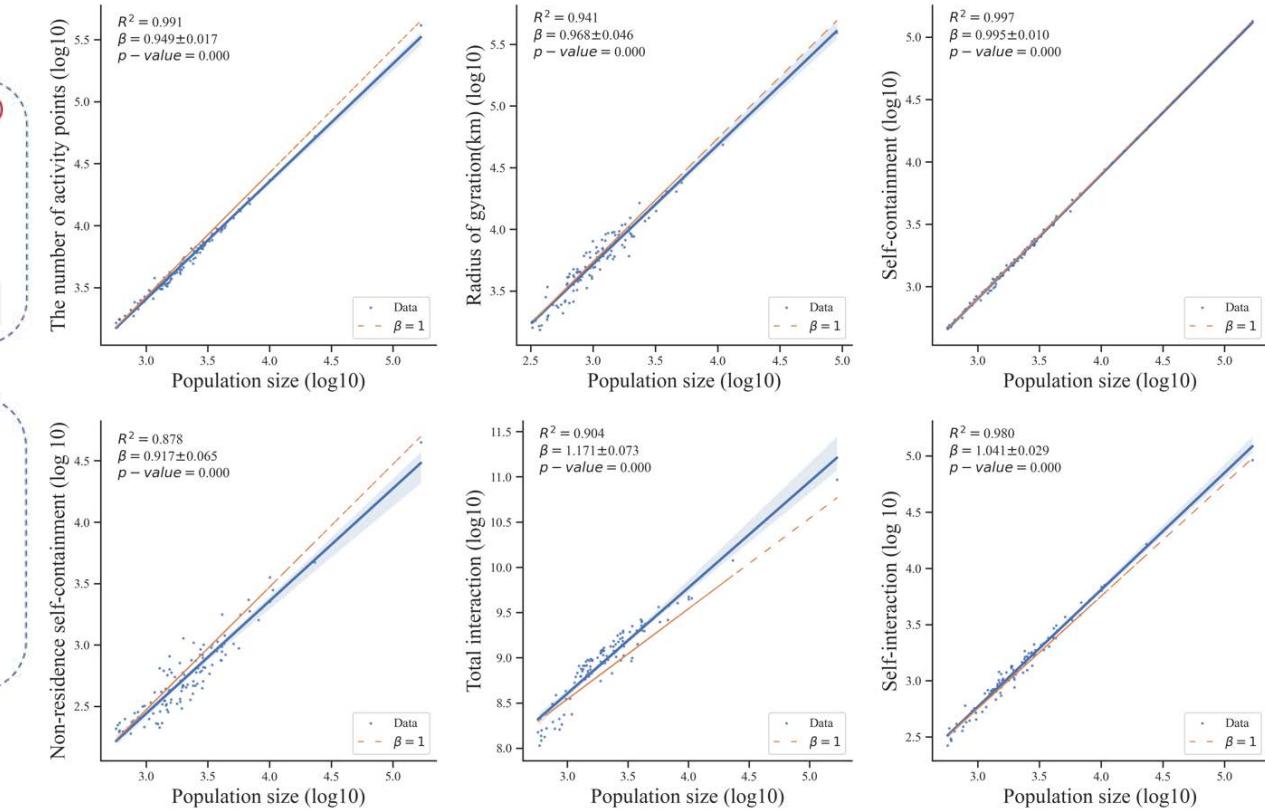
My PhD research



Unpacking urban scaling and socio-spatial inequalities in mobility: Evidence from England



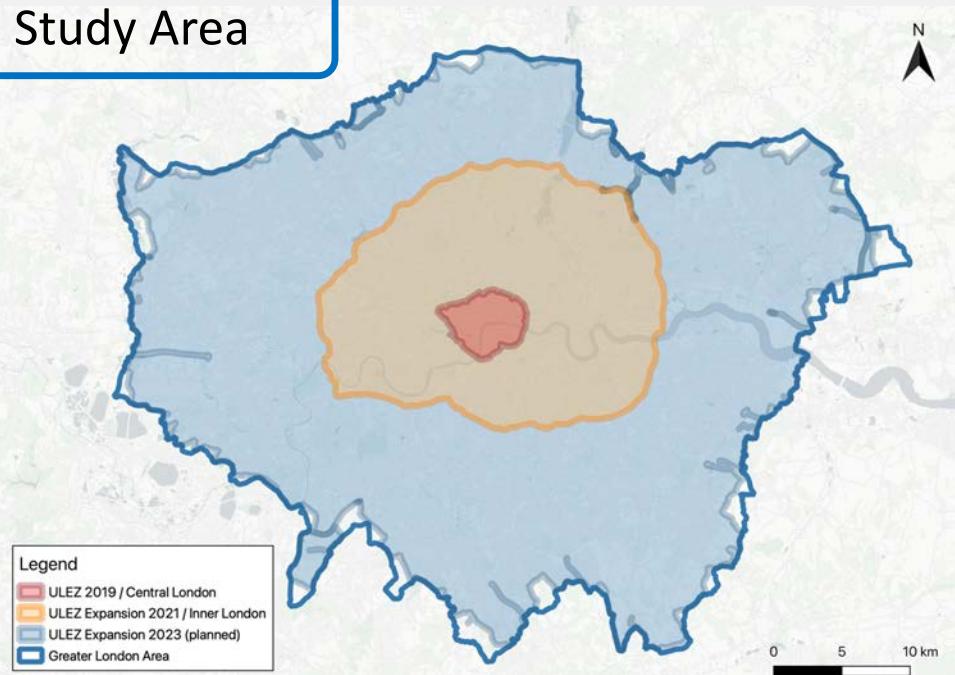
Methodology framework



Urban scaling for aggregation of indicators

Research Questions: (1) How does the ULEZ expansion impact human mobility in London, and to what extent?
(2) How does the impact differ between inner and outer London area?

Study Area



- The Ultra Low Emission Zone (ULEZ) was launched in April 2019 in Central London to improve air quality
- Expanded to Inner London on October 25, 2021
- Expanded to cover almost the Greater London Area on August 29, 2023

Data

Data: Mobile phone location data in the UK

Two daily MSOA-level mobility indices are used:

- 1) Number of activities
- 2) Travel distance

Estimate a user's socioeconomic status using their home location

Methodology

Difference-in-Difference (DiD) model:

$$Y_{it} = \beta_0 + \beta_1 Treatment_i + \beta_2 After_t + \beta_3 Treatment_i \cdot After_t + \beta_4 DayofWeek_t + \beta_5 Census_i + \beta_6 Weather_{it} + \beta_7 PublicTransport_i + \varepsilon_{it}$$

where

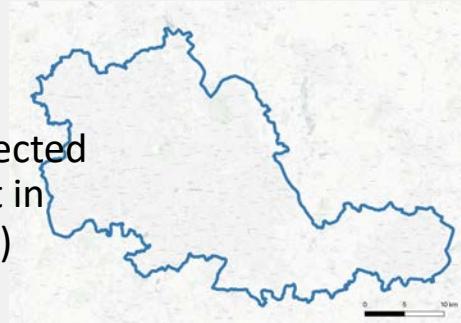
Y_{it} refers to the normalized mobility index on date t for MSOA i
 β are parameters to be estimated
 ε_{it} is the error term

The Average Treatment Effect (ATE) is captured by β_3

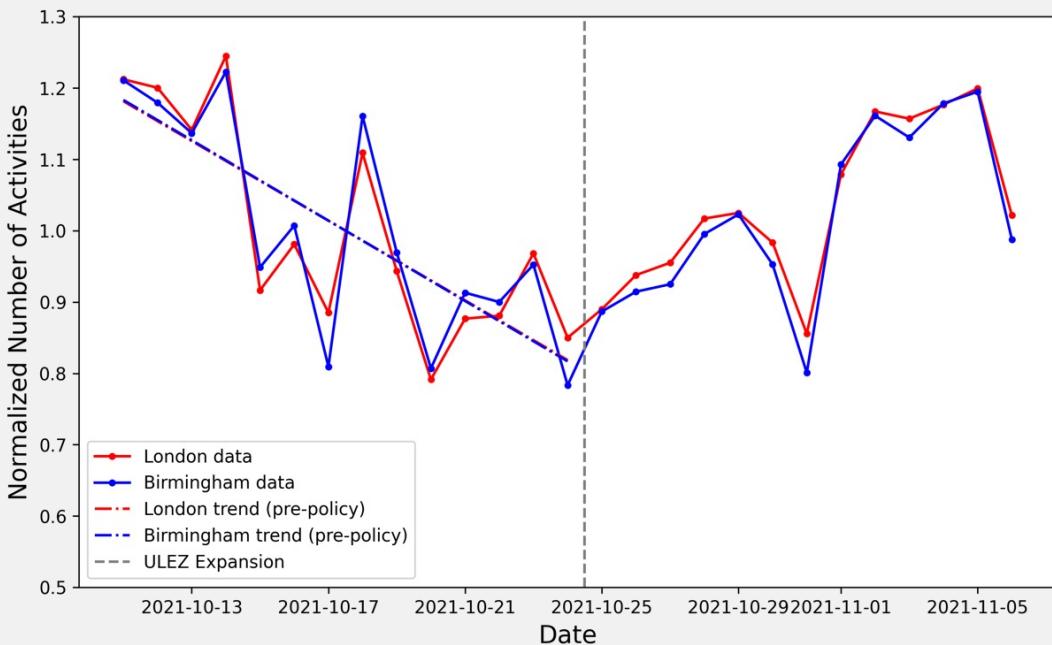


Control Group

West Midland (Birmingham) was selected as the control group as it ranked first in the Propensity Score Matching (PSM)



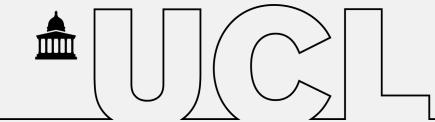
Parallel Trend Assumption satisfied 



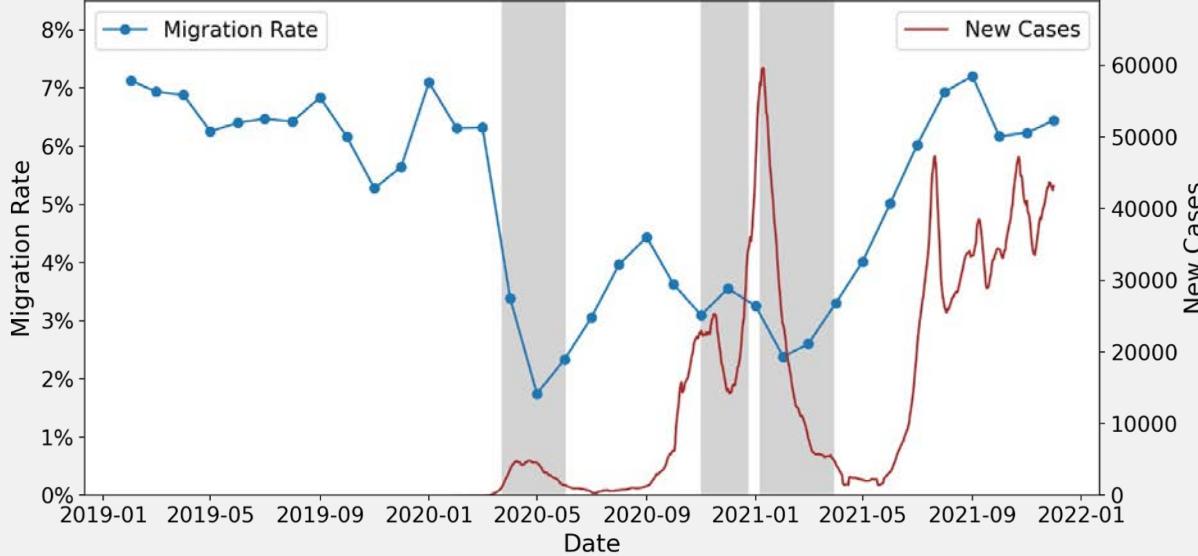
Results

Treatment Group	Outcome	Number of Activities		Travel Distance	
		Greater London	Inner London	Greater London	Inner London
Control Group	Birmingham	Outer London	Birmingham	Outer London	
Treatment * After	-0.0565*** (0.011)	-0.0363*** (0.013)	-0.1118*** (0.024)	-0.1530*** (0.028)	
Treatment	0.1144*** (0.013)	0.1101*** (0.024)	0.9698*** (0.028)	0.7713*** (0.052)	
After	0.0721*** (0.013)	0.0677*** (0.015)	0.5289*** (0.028)	0.5099*** (0.033)	
precipitation	-0.0049*** (0.000)	-0.0032*** (0.013)	-0.0101*** (0.001)	-0.0093*** (0.001)	
sunlight duration	0.0079*** (0.001)	0.0034 (0.002)	-0.0070** (0.003)	-0.0017 (0.005)	
public transport accessibility	0.0051 (0.004)	-0.0027 (0.006)	0.0930*** (0.009)	0.0768*** (0.013)	
travel time to town centre	-0.0045*** (0.001)	-0.0066*** (0.001)	0.0055*** (0.002)	0.0024 (0.002)	
sample size	28883	15788	28548	15728	
R2	0.529	0.569	0.293	0.203	
Adjusted R2	0.528	0.568	0.292	0.201	

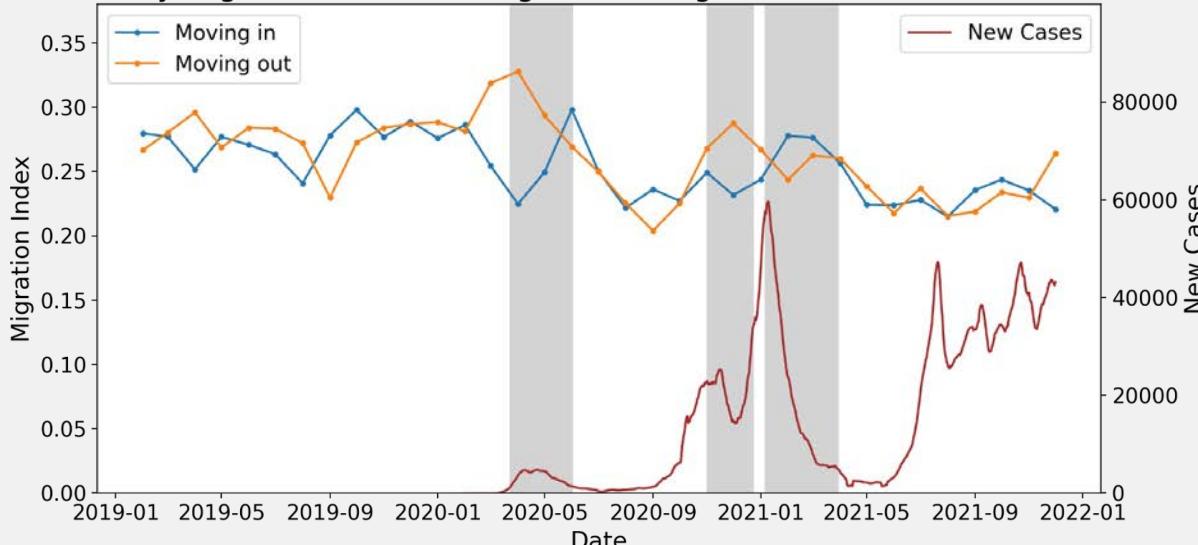
Twitter Study - Migration Before and During the Pandemic



Monthly Migration Rate and New Daily Cases in the UK 2019-2021



Monthly Migration Index Moving In/Out Large Cities in the UK 2019-2021

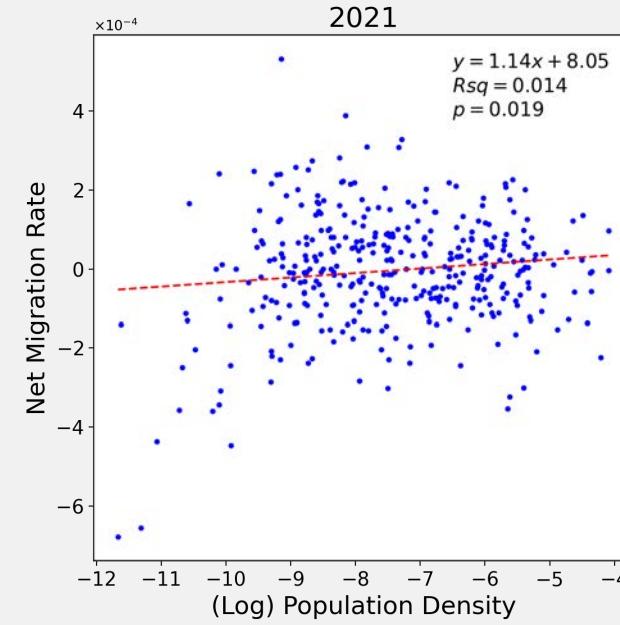
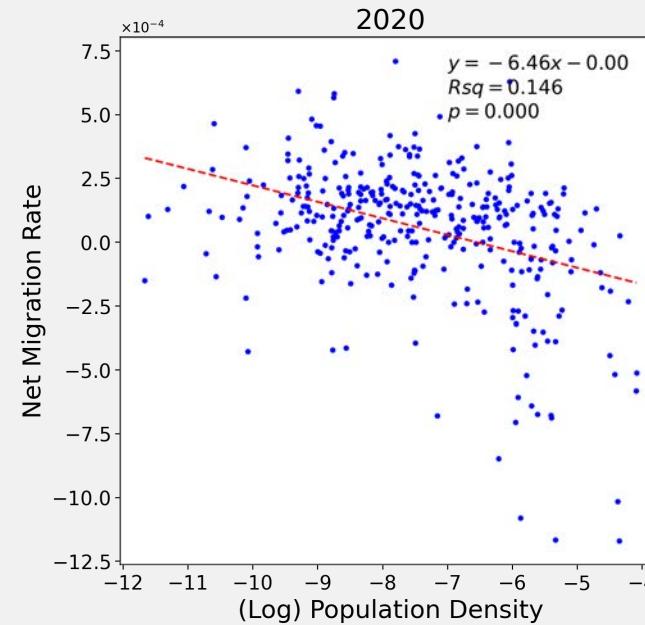
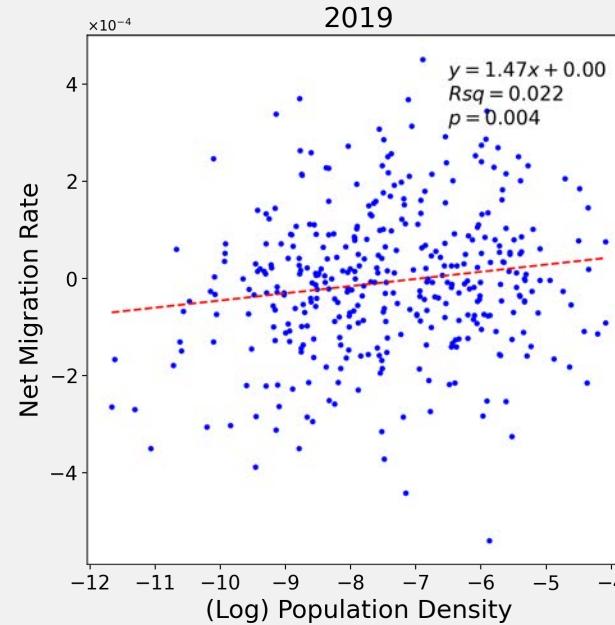


- **Twitter Data:** 182M tweets sent from the UK, from 2019 to 2021. 89% were geolocated to LADs
- **User Localization:** 235k users per month were located to their LAD-scale home locations
- **Migration Matrix:** OD matrix is generated by counting the number of users relocated from one place to another between two defined periods
- The **migration rate** shows a strong association with both the COVID-19 pandemic and government restrictions.
- The **migration index of moving in/out of large cities** was defined as the number of migration moving in/out LADs belonging to large cities divided by the total number of migrations.
- When the pandemic became severe, residents of large cities exited those areas. Then, when the pandemic subsided, people returned to the cities.

Twitter Study - Who is Moving and to Where?



- The **net migration rate** was defined as the net number of migrations (inflows minus outflows) divided by the census population of each LAD.
- The relationship between **net migration rate** and (log) **population density** in 2019, 2020 and 2021.



- Population loss of large cities happens in 2020, but not 2019 or 2021.



Achieving Energy Demand Reductions through Integrated Energy Demand Models for Transport and Residential Sector

[View on GitHub](#)

Achieving Energy Demand Reductions through Integrated Energy Demand Models for Transport and Residential Sector

Project ID: 2228cd1256 (You will need this ID for your application)

Research Theme: [Energy and Decarbonisation](#)

UCL Lead department: [Centre for Advanced Spatial Analysis \(CASA\)](#)

[Department Website](#)

Lead Supervisor: [Chen Zhong](#)

<https://ucl-epsrc-dtp.github.io/2024-25-project-catalogue/projects/2228cd1256.html>

我的博士申请经历：GISphere的帮助



- 如何寻找博士导师？
- 如何申请奖学金？
- 申请过程中应该注意什么？
-



The screenshot shows the FindAPhD website interface. At the top, there are navigation links for 'Find A PhD', 'PhDs', 'Guides', and 'Events'. Below the header, there's a banner for 'Extraordinary Research Programmes' from the University of Edinburgh. The main search area has dropdown menus for 'Discipline', 'Location', 'Institution', 'PhD Type', and 'Funding'. There are also filters for 'Filter by keyword', 'Latest PhDs only', 'Sort by Relevance', and a 'Reset' button. The results section is titled 'Geography PhD Projects, Programmes & Scholarships' and lists 'We have 449 Geography PhD Projects, Programmes & Scholarships'. It includes two examples: one from the University of Leeds about 'Fountains and rain: Improved nowcasting techniques to help adapt heritage landscapes to changing rainfall patterns' and another from the University of Reading about 'Towards net-zero chocolate: carbon and nutrient budgets for compost use on cocoa farms'. Each listing includes details like supervisors, open days, and research projects.

The screenshot shows an email inbox with a search bar at the top containing 'AAG'. The inbox lists several messages from various users, mostly from December 2023. The messages include topics such as scaling good trouble, calls for papers, and recruitment for the AAG Annual Meeting. The interface includes standard email controls like 'From', 'To', and 'Advanced search'.

在FindAPhD和订阅邮件里难以搜寻合适的招生信息

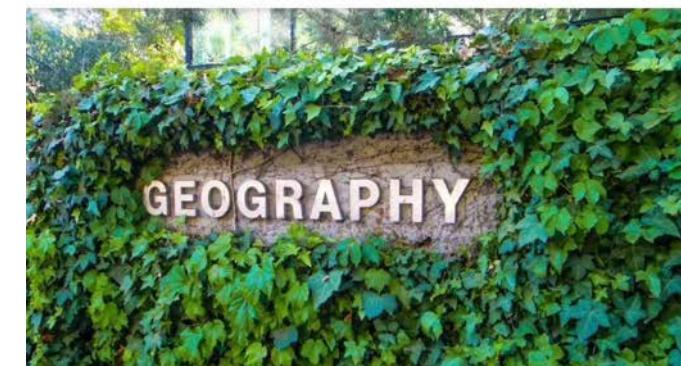
GISphere团队历史：始于一篇知乎出国选校文章



- 始于2019年9月，采取众包的形式获取留学信息，覆盖约35所学校
 - GIS留学：学校与项目指南 - 康雨豪的文章 - 知乎
<https://zhuanlan.zhihu.com/p/82774812>
 - 2020版GIS留学院校指南 - 康雨豪的文章 - 知乎
<https://zhuanlan.zhihu.com/p/254826817>
- 项目初衷
 - 为GIS专业学弟学妹的出国选校提供帮助和支持
- 早期创始人
 - 康雨豪, 叶山, 叶翔, 饶锦蒙, 赵群山, 李肖



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康雨豪 ·
威斯康星大学麦迪逊分校 地理学博士在读

GIS留学：学校与项目指南

9 天前 · 来自专栏 地理空间数据科学

这是一篇全新（2019年9月）且较为详实全面（目前收录三大洲34所学校）的GIS出国留学选校总结帖，作者来自于世界各地名校GIS专业，均为在读或已经毕业的学生，或年轻助理教授，主要围绕学校和导师提供第一手的信息。因为无法联系到所有包括GIS相关学校的华人朋友参与众包贡献，本文仅供参考，欢迎补充更新，更全面的信息也可以关注[AAG Geography Program](#)。同时希望这篇文章能为后来者铺路，为GIS专业的学弟学妹出国选校提供帮助和支持。

183

45条评论





2020版网址 <https://gis-info.github.io>

更统一的格式

斯图加特大学

University of Stuttgart (Stuttgart)

德国，巴登-符腾堡州，斯图加特市

GIS相关系所：摄影测量研究所，斯图加特工程大地测量研究所，测地所。

斯图加特大学以工科著名，是德国理工大学九校联盟TU9成员之一，在其跨学科联合体 Faculty 6 中下设多个航空，空间和大地测量学领域的相关系所，涉及到GIS相关研究的导师主要集中在摄影测量研究所 (IFP) ，大地测量研究所 (IIGS) 和测地所 (GIS) 。斯图加特大学较为出名的还有GEOENGINE的两年期硕士项目，英语授课，内容覆盖测绘，定位，导航，地图制图等。

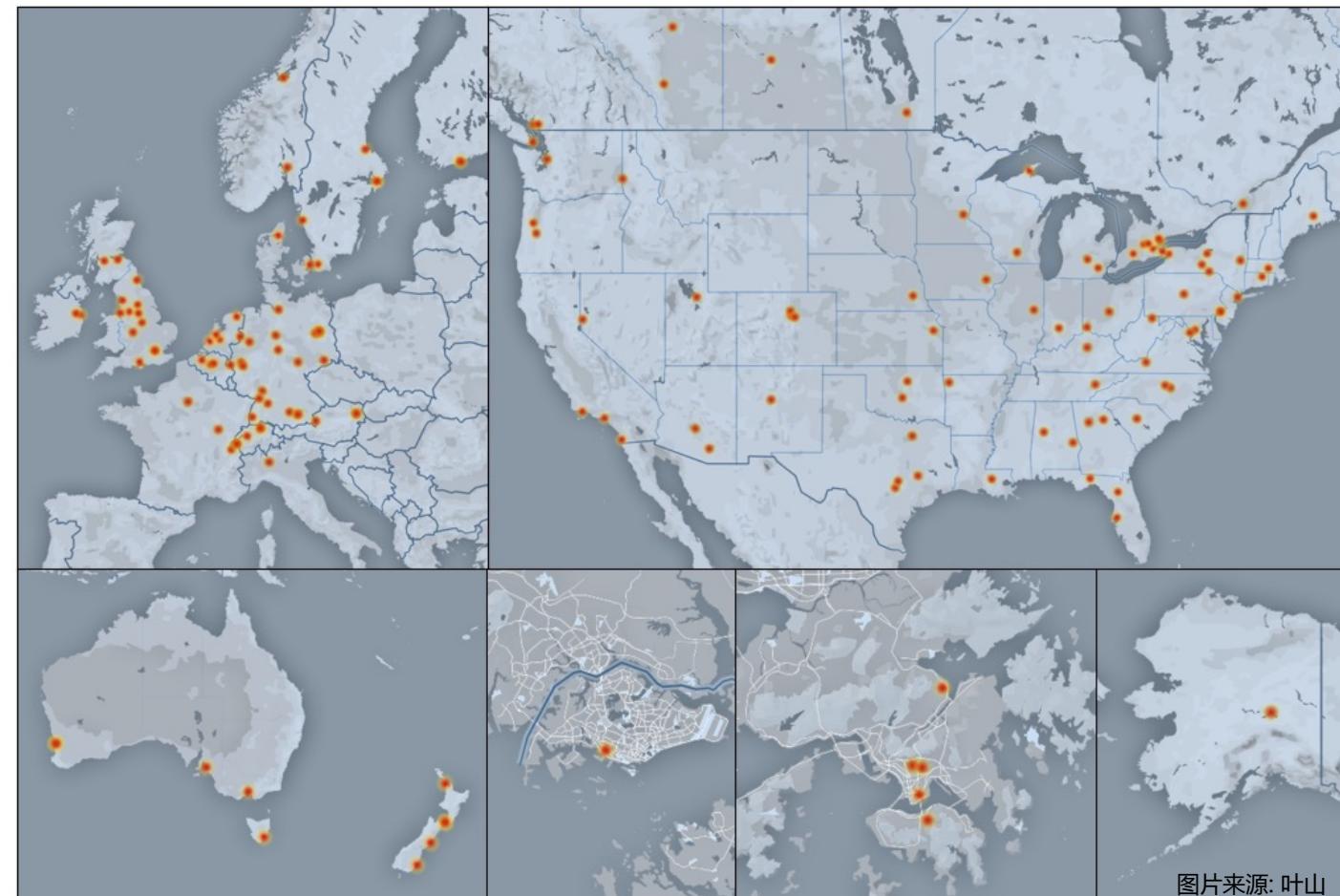
相关导师：

- **Volker Schwieger**: remote sensing, SAR, 3D construction;
- **Volker Walter**: automatic map retrieval in the Internet, generalization of 2D and 3D data, conflation of spatial data;
- **Nico Sneeuw**: geodesy and surveying, hydrology, oceanography, spatial analysis, climate change, geomatics, harmonics, earth observation, earth sciences.

院校介绍

老师介绍

扩展到四大洲约 **180** 所学校



图片来源: 叶山

GISphere: 中文网站, 英文网站和双语网站



GIS-Info 院校指南

此网站已经迁移至 gisphere.info/school, 本页面内容不再维护。

GIS-Info 院校指南公益项目发起于2019年9月，最新版本更新时间为2021年9月，旨在提供及时且全面的全球GIS及相关专业院校信息。信息由来自世界各地GIS及城市规划等相关专业院校的在读学生、近期毕业校友或青年教师提供，内容主要包括各院系的优势科研方向、开设学位和导师信息。希望这份指南能为有留学意向的GIS相关专业朋友们提供帮助和支持。



社区

为了方便大家交流，我们创办了GISphere留学指南微信公众号，定期邀请在世界各地留学或访学的朋友们分享他们的留学/申请经验，以及在海外留学/访学中工作与生活的经历、体验和感悟。帮助小伙伴们有的放矢，提高申请成功率，了解海外工作和生活各方面信息。同时，我们也会定期整理和发布有关各类会议讲座和论文投稿的各类学术信息，助力大家的学术发展。请扫[底部二维码](#)关注我们的GISphere公众号。

关注公众号后可以加入GISpace留学微信群。微信群是GIS及相关专业的海外学生学者的高质量活跃交流平台，尤其欢迎一些对海外留学感兴趣的GIS相关专业的小伙伴们加入。群内聊天很轻松，互动氛围很好，进群后请将昵称设置为“[进群人姓名](#)”。

中文网站

<https://www.gisphere.net/>

GISphere Guide

A non-profit platform for GIS scholars to share resources and opportunities.

[Homepage](#) [Contributors](#) [How to Contribute](#)

GISphere Guide

(updated at Nov. 2023)

!!! This site has been moved to gisphere.info/school !!!

Please visit the new address for the latest information. The content of this page is no longer maintained.

(updated at May 2022)

English Version: gisphere.github.io

English Version (GitHub Repository): [GitHub](#)

Chinese Version (Official Website): www.gisphere.net

Contact: gisphere@outlook.com

See how to contribute, edit, and provide more information: [A Guide for Contribution](#)

About

This guide was launched in September 2019, and the latest update time is April 2022. We aim to provide timely and comprehensive information of global graduate-level programs in geographic information sciences (GIS)-related fields (e.g., remote sensing, urban studies, other subfields in geography). Authors of this guide are from GIS-related programs, being either current graduate students, recent alumni, or young faculties. We mainly provide first-hand information about GIS-related programs and potential supervisors. We hope this guide can help those who are seeking graduate school opportunities in GIS.

GISphere guide is one key product of the GISphere project. GISphere is a voluntary project started by a group of Chinese young scholars who study GIScience worldwide. GISphere is devoted to bridging the digital and information gap for students who are in geography-related majors and help them to access the most up-to-date information on M.S./Ph.D. opportunities, funding availabilities, webinars, and competitions globally. Our Chinese version website (www.gisphere.net) has achieved great success in China. We have published over 150 blogs with the support of more than 200 volunteers. More than 5,000 students and teachers have been benefited from our community. We hope the English version website can help more

Where GeoSpatial Thinking Shines

Empower the GIS-related education for the future

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[GISphere Global Admission Annual Review](#)

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1月 2月 3月 4月 5月 6月
7月 8月 9月 10月 11月 12月

地理信息科学 遥感 自然地理学
人文地理学 城市规划 卫星导航

美国威斯康星大学麦迪逊分校招聘博士后
Estimate crop growth stages, biomass, and crop yield; Deadline: Soon; Contact: Dr. Zhou Zhang (zhang...
美国 发布于 2023-12-12

奥地利萨尔茨堡大学招聘博士后
Geoinformatics and GeoAI; Deadline: 2023-12-27; Contact: bewerbung@plus.ac.at; URL: https://www.pl...
奥地利 发布于 2023-12-12

奥地利萨尔茨堡大学招聘博士研究生
Geoinformatics and GeoAI; Deadline: 2023-12-27; Contact: bewerbung@plus.ac.at; URL: https://www.pl...
奥地利 发布于 2023-12-12

瑞典皇家理工学院招聘博士研究生
Foundation models for earth observation big data; Deadline: 2023-12-15; Contact: Dr. Andrea Nascetti (n...
瑞典 发布于 2023-12-12

美国锡拉丘兹大学招聘 2 名博士研究生
Urban informatics, smart cities, applied data science in transportation, energy and environment domains;...
美国 发布于 2023-12-09

加拿大麦吉尔大学招聘博士研究生
Developing probabilistic machine learning frameworks to model spatiotemporal urban mobility/traffic data...
加拿大 发布于 2023-12-09

瑞典隆德大学招聘博士研究生
Is there a perennial future of agriculture; Deadline: 2023-12-12; Contact: Dr. Mine Islar (mine.islar@lucus...
瑞典 发布于 2023-12-09

1 2 3 4 5 6 ... 97 >

龙珏竹

美国威斯康星大学麦迪逊分校
Estimate crop growth stages, biomass, and crop yield 方向
PostDoc 机会

尽快申请, 有意者请联系 张舟老师 (zzhang347@wisc.edu)

链接:<https://gisphere.info/post/709>

标签: 美国; 博后机会; 遥感;
作物产量; 机器学习

龙珏竹

瑞典皇家理工学院 Foundation
models for earth observation big
data 方向 PhD 机会

12月15日截止申请, 有意者请联系 Dr. Andrea Nascetti (nascetti@kth.se)

链接:<https://gisphere.info/post/706>

标签: 瑞典; 博士机会; 地理信
息科学; 遥感; 计算机视觉

官网双语数据库 支持检索

微信群同步更新



一年一度问卷收集中，GISphere社区里的小伙伴们提了很多建议，其中不少同学提到了线上分享的点子

没有，维持现状；可以通过zoom或腾讯会议开圆桌会

可以做一些线上的分享会比如GIS职业规划~

可以做Zoom meeting交流学长学姐回答问题

建议可以定期开展线上交流活动

2021.9
社区成员idea



2021.10 圆桌会第一期
开始筹办



2021.11 圆桌会第一期
顺利开展

.....

GISphere: GISalon圆桌会议



- GISalon圆桌会已经举办 23 期中文版，3 期国际版
- 在 Bilibili 发布 163 个视频，播放量 388,000+，粉丝数 15,000+



【硕博招生要求】名校教授如何选学生？基础？热爱？性格？成果？
3.4万 2022-5-17



若重回读博/申博前，想对自己说...
1.9万 7-9



【硕博招生】导师揭秘招生中最喜欢的学生品质是...快来对号入座！
1.7万 2022-12-10



【硕博科研论文选题】优秀的论文选题是什么样的？
1.5万 2022-3-13



【博士阶段规划】名校教授手把手教你学术规划！热点？成果？人
1.4万 2022-5-19



【硕博招生要求】北大博士&明尼苏达教授 | 深度剖析很重要
1.3万 2022-5-17



从博士到博后：既是挑战也是转变
1.2万 7-15



【博士招生要求】剑桥博士&伦敦国王学院教授 | 沉稳、务实、包容、
04:18 2022-5-29



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10:48 2022-5-23



【硕博招生要求】斯坦福博后&港大教授 | 研究热情最重要
01:45 2022-5-17

GISphere GISalon Webinar Series Advanced GIS Careers Ep. 03

Recruiting and Mentoring Graduate Students in GI Science and Cartography

Time: December 11, 2023 10-11am (EST), 11pm-12am (Beijing), 3-4pm (London)
Venue: <http://zoom.us/my/gisalon>

Panelists:

Dr. Kathleen Stewart
Professor, University of Maryland
Dr. Stewart is a Professor in the Department of Geographical Sciences and Director of the Center for Geospatial Information Science. She is interested in mobility and spatial access, often in a big geospatial data context and using approaches that lie in the expanding field of spatial data science.

Dr. Angela Yao
Professor, University of Georgia
Dr. Yao is a Professor in the department of Geography at the University of Georgia. Her research interests focus on geospatial data ranging from GIS, spatial statistics, machine learning methods, network analysis, and geovisualization. With domain interests in urban transportation and public health, she applies geospatial techniques to study various urban and health problems.

Dr. Caglar Koaylu
Associate Professor, University of Iowa
Dr. Koaylu is an Associate Professor in the Department of Geographical and Sustainability Sciences at the University of Iowa. His research interests lie at the intersection of computational and visual analytical methods, big data analytics and usability in geovisualization.

Dr. Junghwan Kim
Assistant Professor, Virginia Tech
Dr. Kim is an Assistant Professor in the Department of Geography at Virginia Tech. His research interests include human mobility (e.g. travel behavior and accessibility), environmental health, the application of geospatial data science methods, and geospatial data privacy / ethics.

Hosts:

Hoeyun Kwon
Postdoc, University of Colorado Boulder
Dr. Kwon is a postdoc at the Institute of Behavioral Science at the University of Colorado Boulder. Her research focuses on spatiotemporal analysis, social sensing, and social and environmental inequalities.

Armita Kar
Postdoc, The Ohio State University
Dr. Kar is a post-doctoral researcher at the Center for injury research and policy, Nationwide Children's Hospital, Columbus, OH. Her research focuses on sustainable transportation, social equity, & spatial analytics.

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我看到嘉宾名单

我都惊了

哈哈哈哈哈哈

听听他们到底想要什么

四位老师我投了三个



2023.12.11
第3期英文圆桌

GISphere: 全媒体平台和国际社区



GISphere 已转帖
Dr Madelon Lohl @LohbeckM · 11月19日 ...

Come and join my #research team at @WUR as a #PhD student within my #ERCstg REACT (Regreening Africa with Natural Regeneration) 🌱
Together we will unravel how, when and where natural regeneration, including #FMNR, contributes to restoration of degraded agricultural landscapes

7 59 101 1.4万

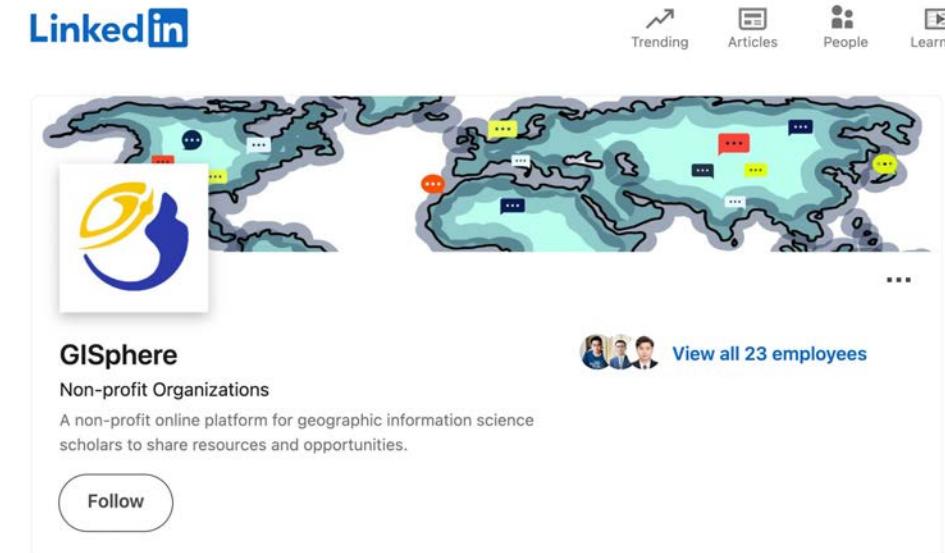
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About us

GISphere is a non-profit initiative led by a group of graduate students and young scholars in GIS-related fields (e.g., remote sensing, urban studies, geology, and other subfields in geography). We have helped students interested in professional development and graduate programs to access the up-to-date information on global M.S./Ph.D. opportunities, funding availabilities, webinars, and competitions through our project websites, blogs, online forums, and other virtual events.

Industry	Non-profit Organizations
Company size	51-200 employees
Headquarters	Online
Type	Nonprofit
Founded	2019

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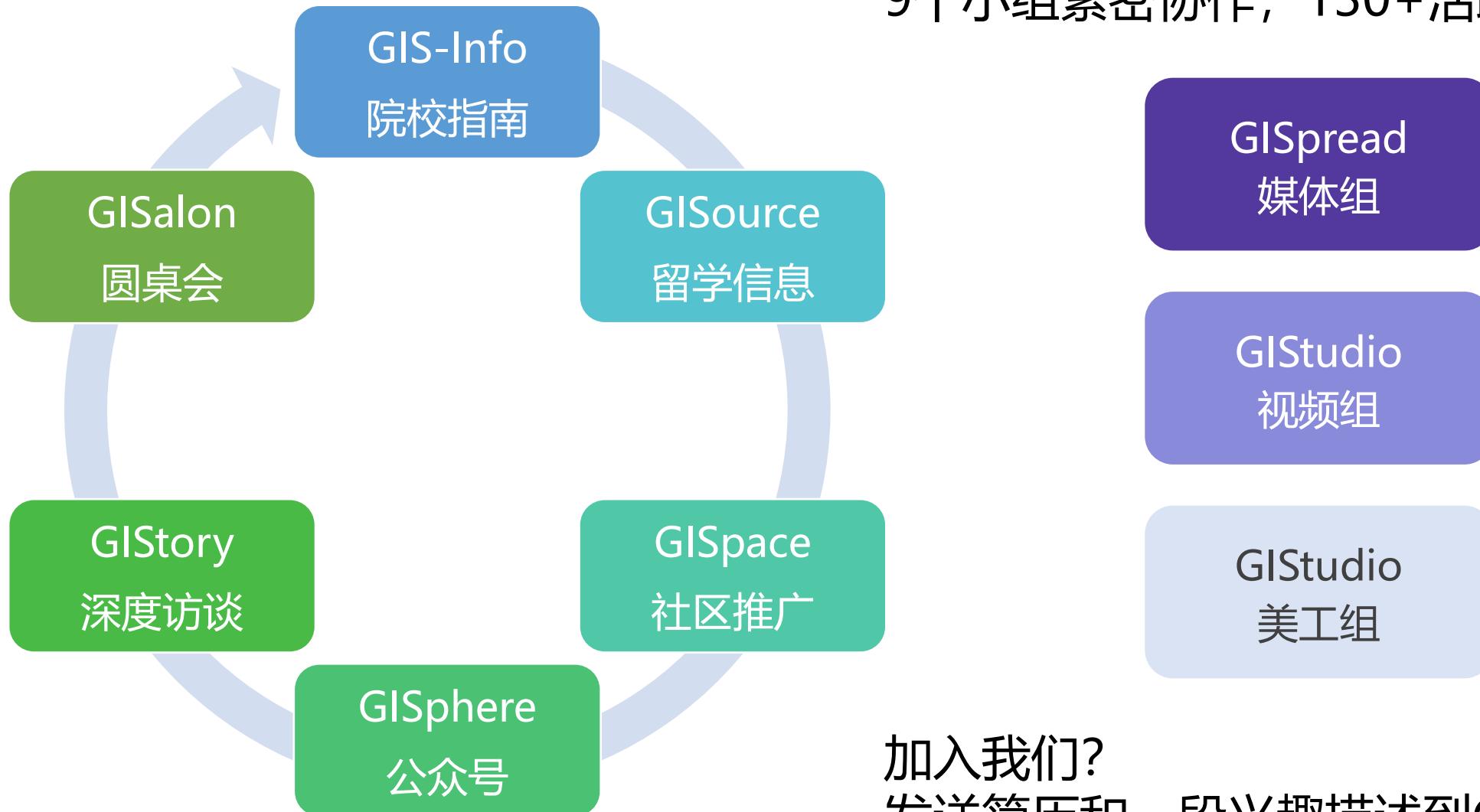
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Choosing GIS graduate programs from afar: Chinese students' perspectives

Yikang Wang^{1,2}  | Yuhao Kang^{2,3}  | Haokun Liu^{2,4}  |
Ce Hou^{1,2,5}  | Bing Zhou^{2,6}  | Shan Ye^{2,7}  | Yuyan Liu^{2,8}  |
Jinmeng Rao^{2,3}  | Zhenghao Pei^{2,9}  | Xiang Ye^{10,11}  | Song Gao³ 

¹Centre for Advanced Spatial Analysis, University College London, London, UK

²The GISphere Project, Madison, Wisconsin, USA

³GeoDS Lab, Department of Geography, University of Wisconsin-Madison, Madison, Wisconsin, USA

⁴Institute of Geography, University of Bern, Bern, Switzerland

⁵Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China

⁶Department of Geography, Texas A&M University, College Station, Texas, USA

⁷Department of Geoscience, University of Wisconsin-Madison, Madison, Wisconsin, USA

⁸Department of Geography, National University of Singapore, Singapore, Singapore

⁹Department of Geography & Geographic Information Science, University of Illinois Urbana-Champaign, Urbana, Illinois, USA

¹⁰Research Institute for Smart Cities, Shenzhen University, Shenzhen, China

¹¹School of Architecture and Urban Planning, Shenzhen University, Shenzhen, China



Research Questions

1

What are the **patterns** of Chinese GIS students applying for overseas GIS programs?

2

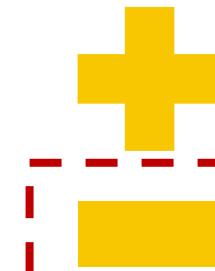
What are the **factors** influencing Chinese GIS students' choices of overseas GIS programs?

3

What **insights** can be inferred for future GIS and geography program development?



Push-pull Model



Push factors are factors that encourage students to leave their home countries and study abroad

Pull factors are factors that are advantages in study destinations

Three-phase Model



Determining whether to go abroad or continue their studies in their home country

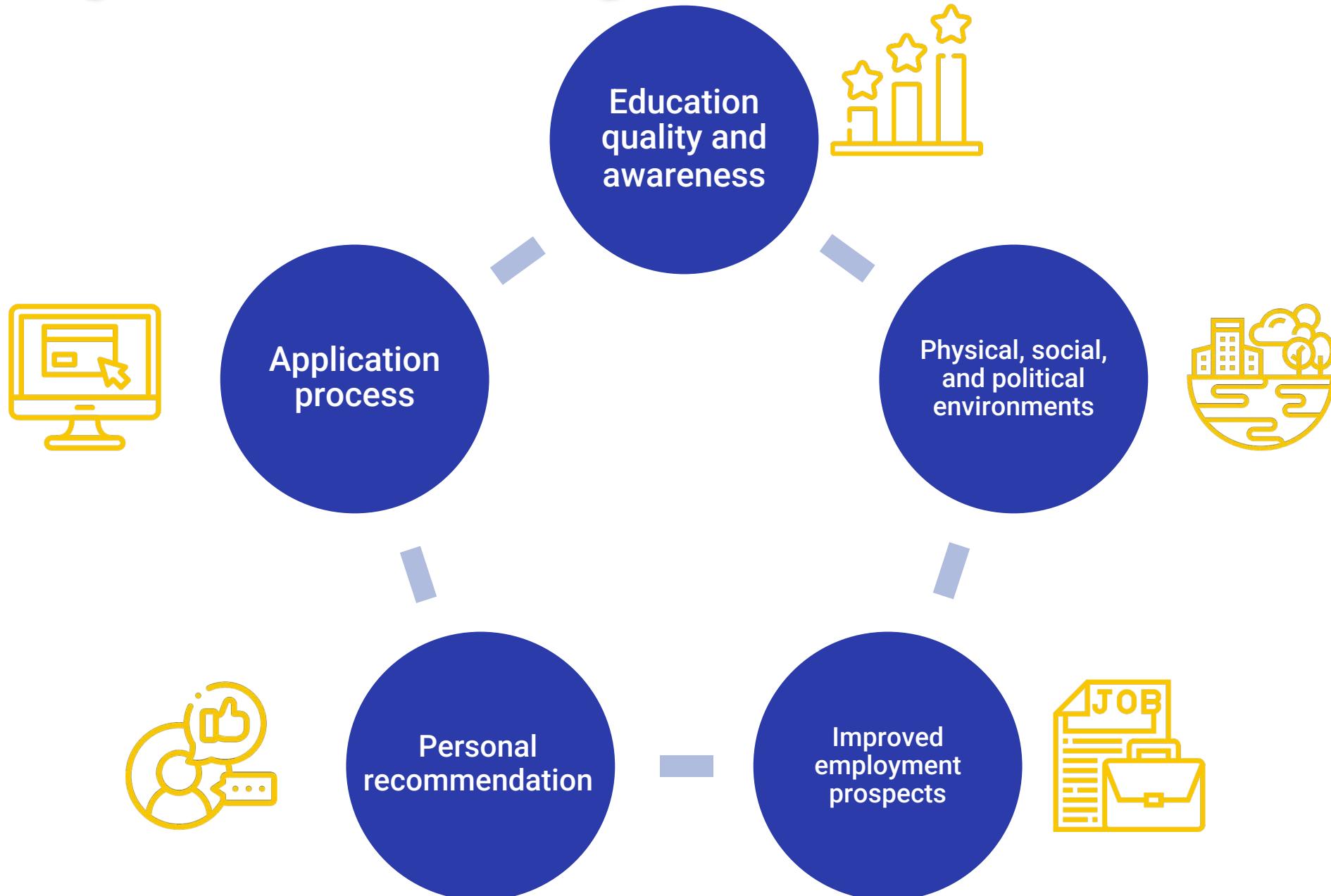


Selecting a destination country



Choosing a higher education institution

Five Categories of Influencing Factors



Questionnaire and Data Collection



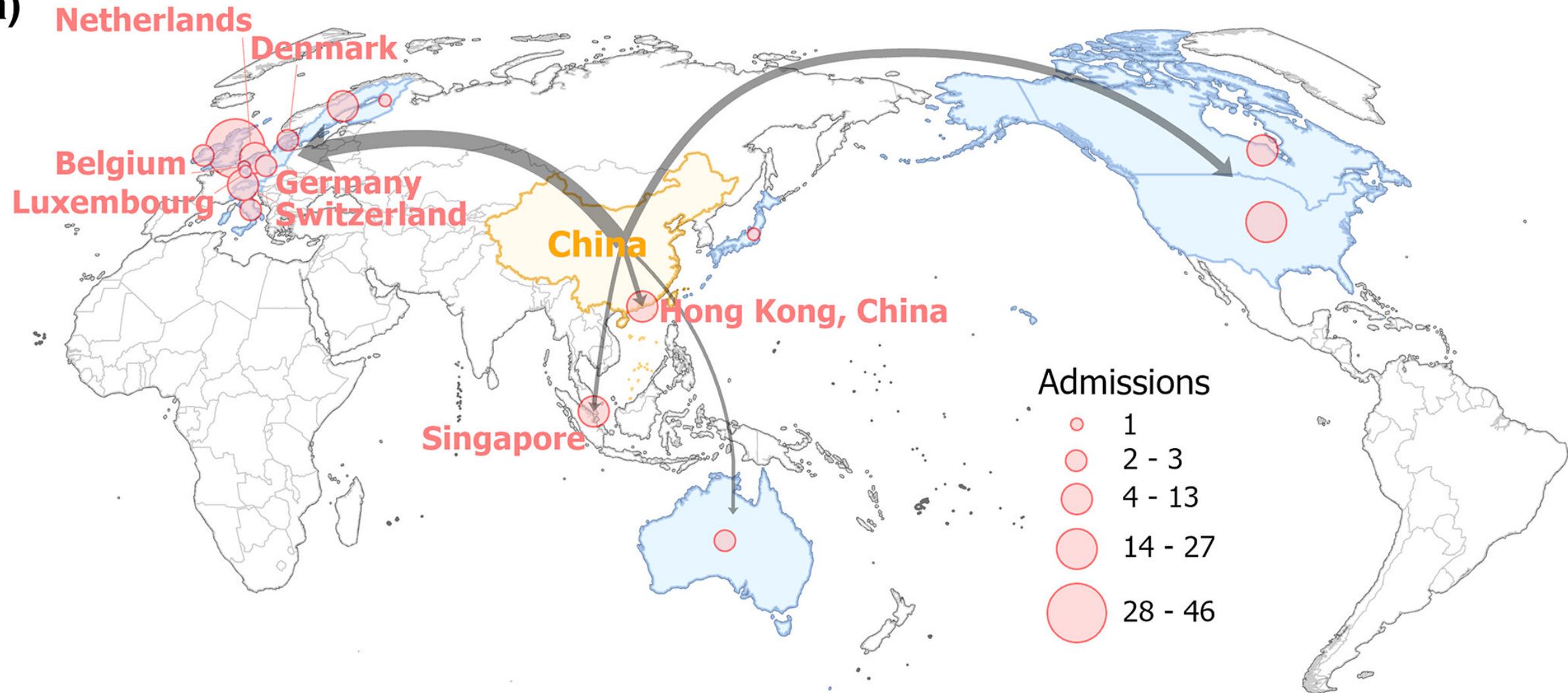
- 39 main questions
 - Distributed in the GISphere community
 - Chinese students who successfully applied for overseas GIS programs in 2022
 - 84 valid questionnaires

*6. 在您选择留学院校和专业的过程中，以下因素是否影响了您的决策，重要性如何？

Results – Spatial Distributions of Applications



(a)

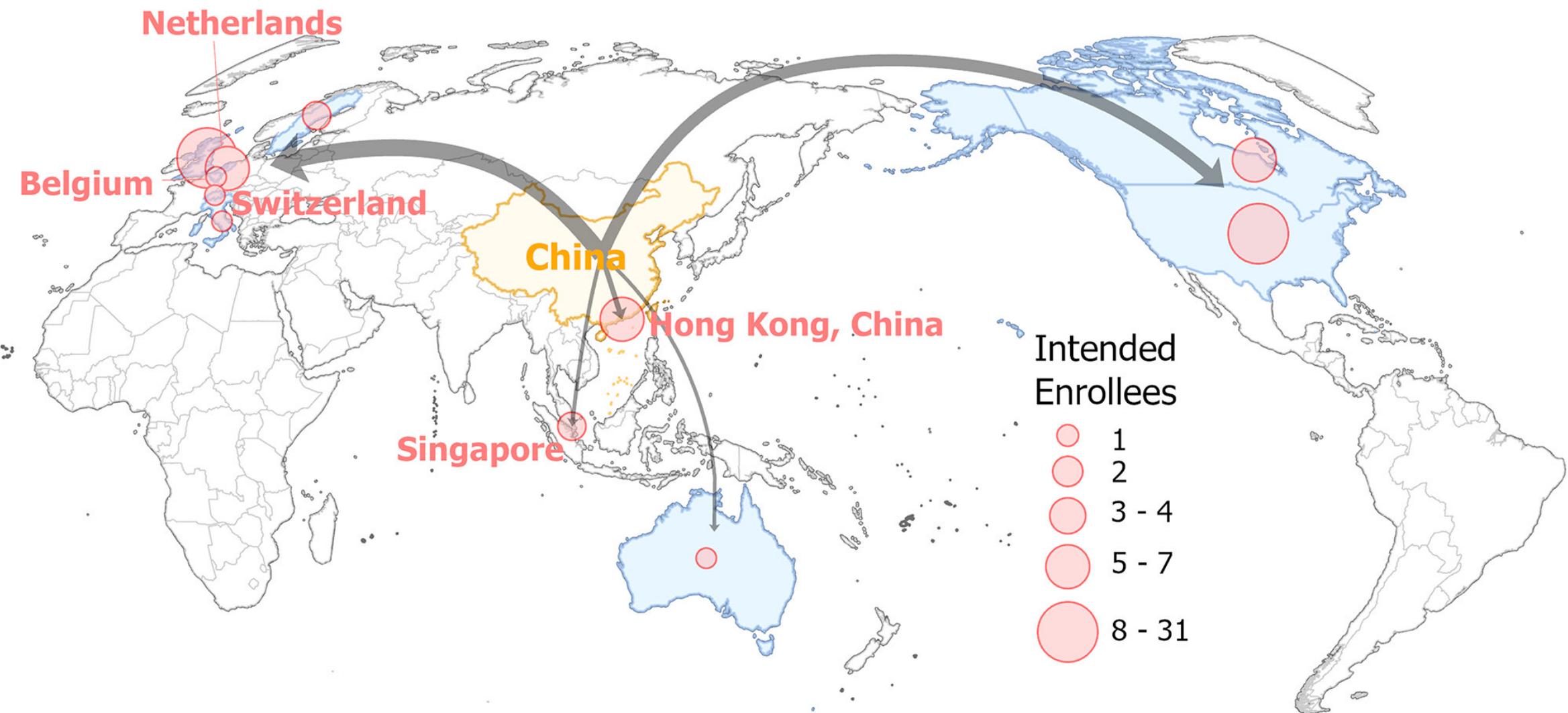


Admissions: Number of admissions by countries

Results – Spatial Distributions of Applications



(b)

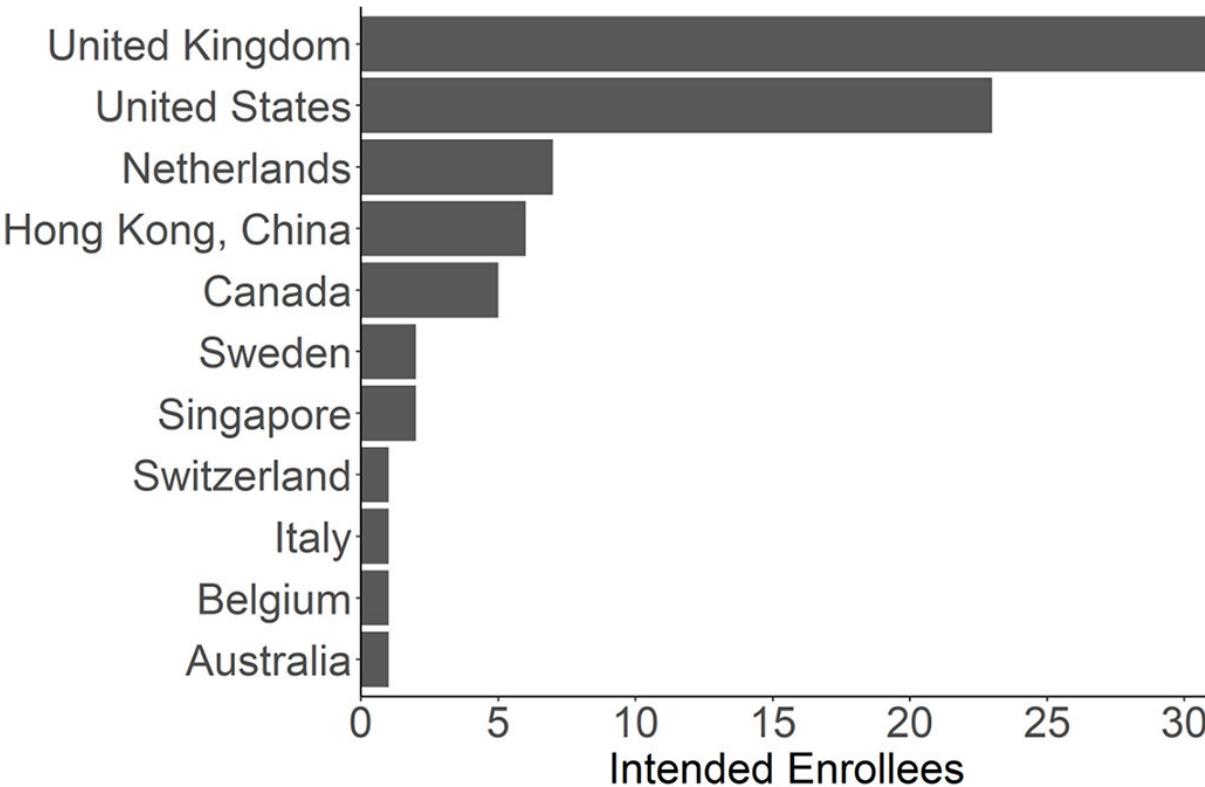


Intended Enrolees: Number of students intended to enrol by countries

Results – Statistics of Enrolments

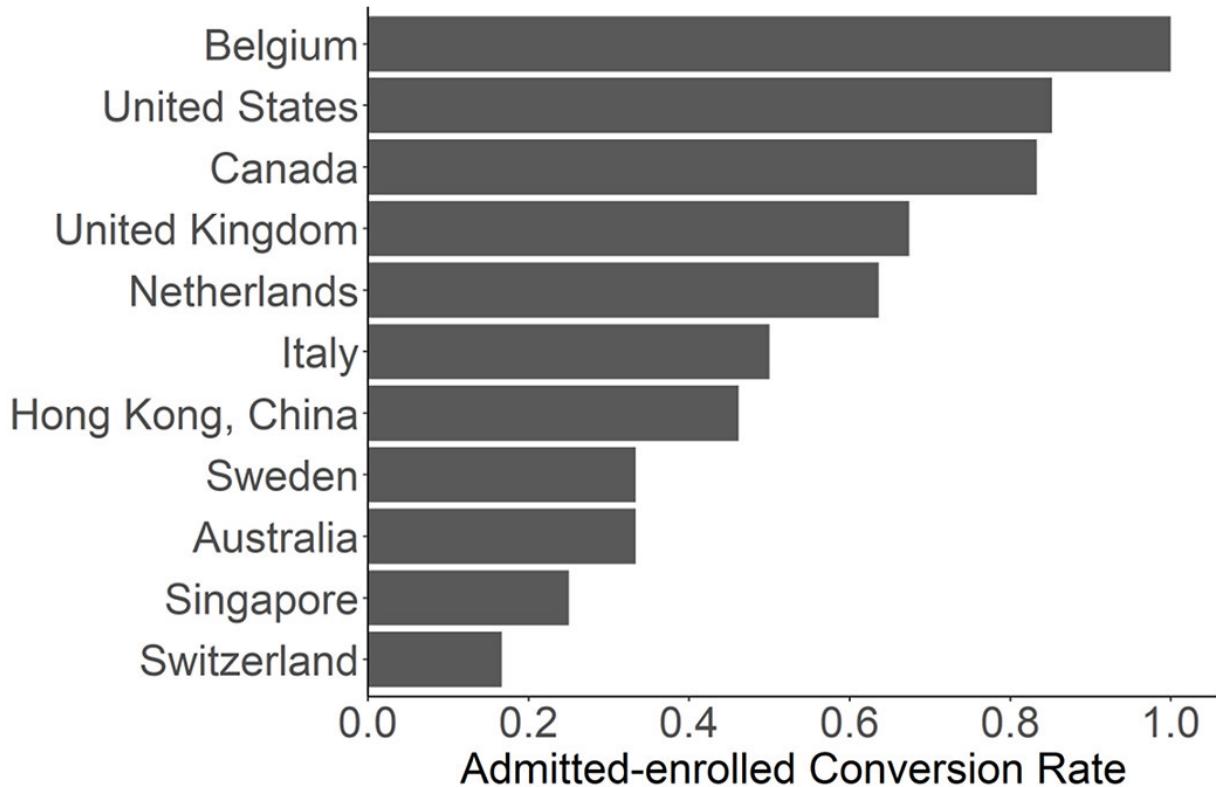


(c)



Number of students intended
to enroll by countries

(d)

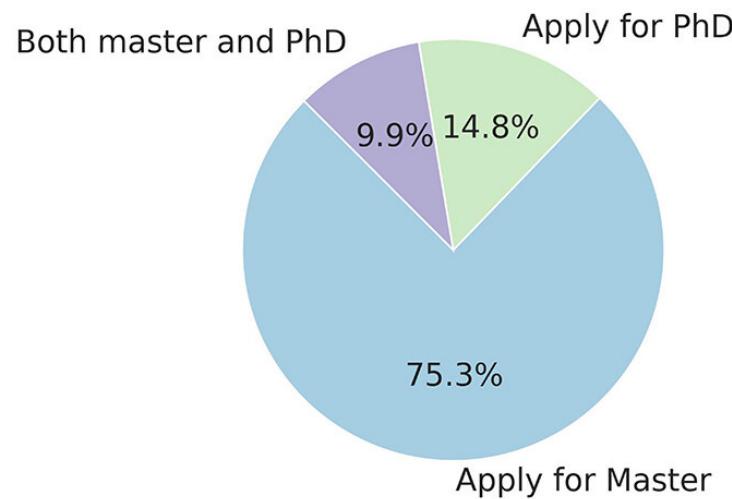


Admitted-enrolled Conversion Rate

Results – Participants Backgrounds

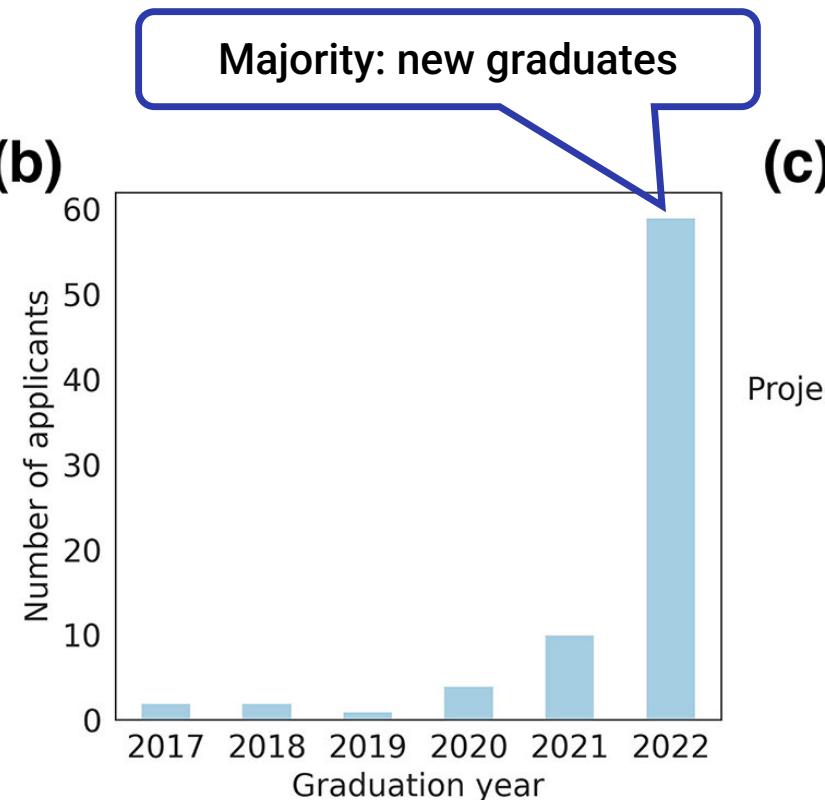


(a)



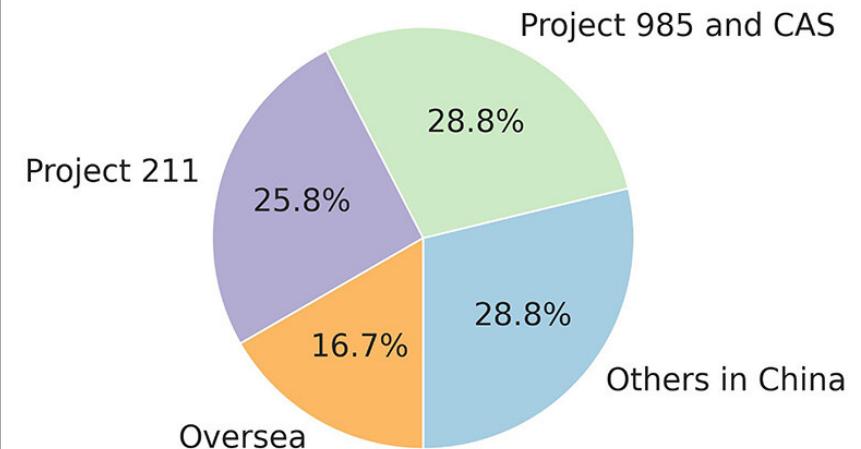
Types of degree programs

(b)



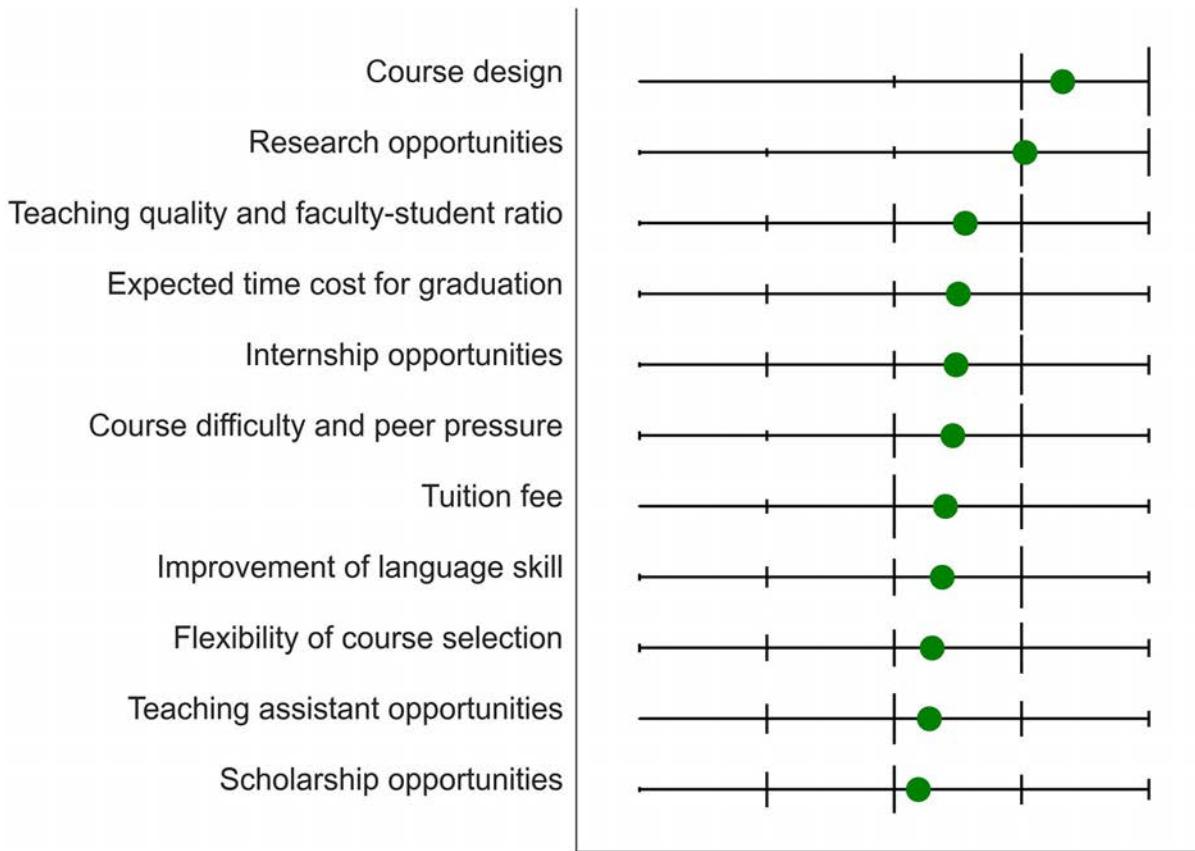
Number of participants who graduated each year

(c)



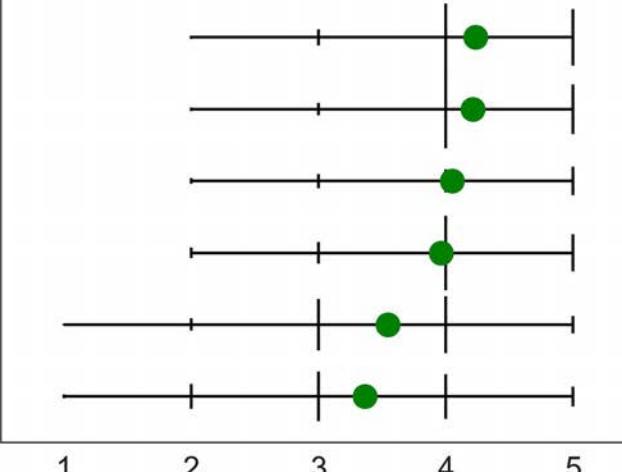
Categories of graduated institutions

Results – Education Quality and Awareness



Education Quality Factors

Overall ranking and international reputation
Ranking and international reputation in the field
Advisor's academic reputation
Recognition of the university and program in China
Historical academic reputation
International academic cooperation and exchange activities



Awareness of Programs

Results – Physical, Social, and Political Environments

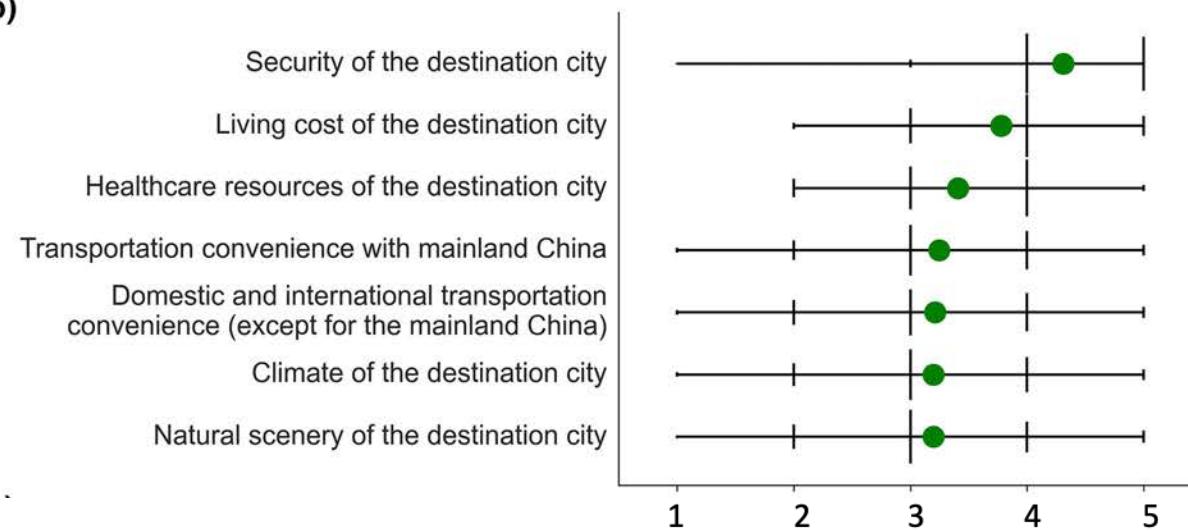


Country Level Factors

(a)

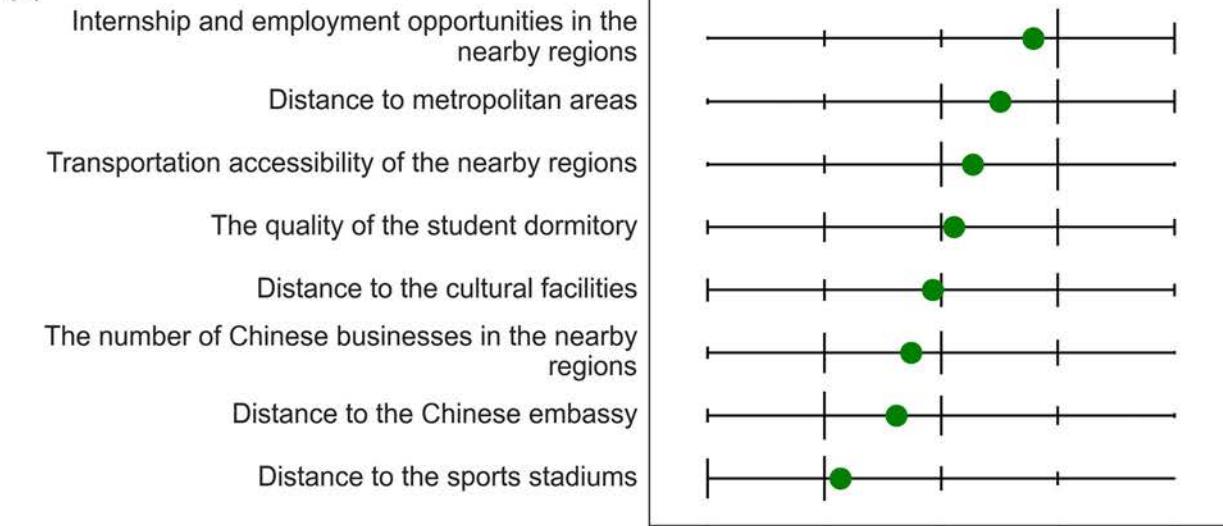


(b)

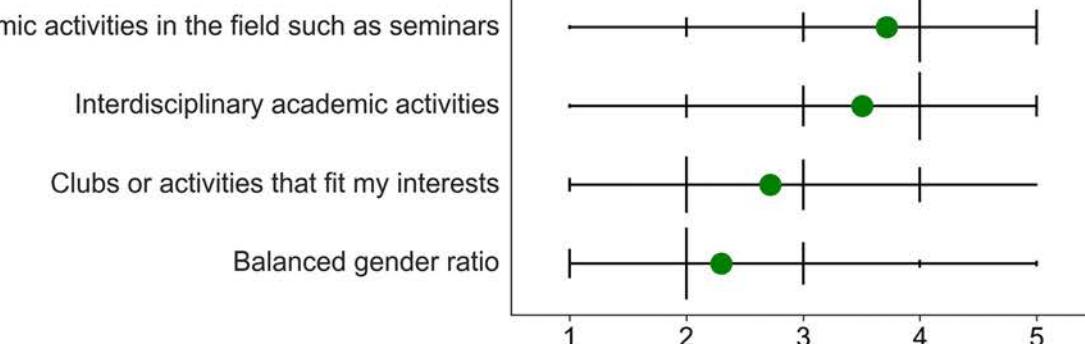


University Level Factors

(c)



(d)



Campus Life Factors

Results – Future Career Plans



Future Plans

Future Plans for Master's Program Applicants

Future Plans for Doctoral Program Applicants

Notice: 1 represents the **highest** priority
and 5 represents the **lowest** priority

(a)

Academia

Industry

(b)

Work in the destination country

Pursue a Ph.D. degree in abroad

Return and work in China

Work in another overseas country

Pursue a Ph.D. degree in China

Pursue another master's degree

(c)

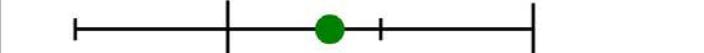
Work in academia as a postdoc or faculty in
oversea countries

Work in industry in the destination country

Work in academia as a postdoc or faculty in China

Work in industry in another overseas country

Work in industry and return to China



1 2 3 4 5

Results – Improved Employment Prospects in Industry



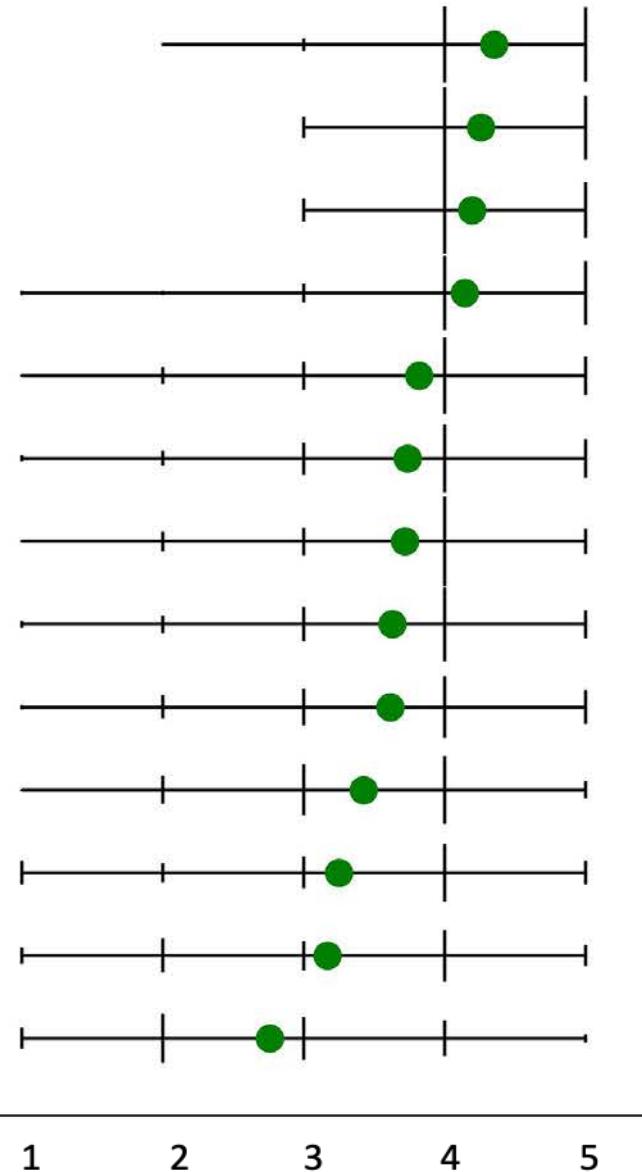
Key Takeaways

Students consider **general knowledge and skills** more than **professional knowledge and skills**

The **overall prospects** of the field is important

No significant differences between factors related to jobs in China and jobs outside of China

- (a) The general knowledge and skills trained in the program fit my career plan
The overall prospects of this field in industry
The future job in this field fits my interests
The professional knowledge and skills trained in the program fit my career plan
The average salary of jobs in private sectors in China
The average salary of jobs in the destination country or region
Alumni in industry
The opportunity of finding jobs in the destination country or region
The opportunity of finding jobs in private sectors in China
Chinese alumni in industry
The difficulty of immigration to the destination country after working in industry
The opportunity of finding jobs in public institutions in China
The proportion of colleagues who have study or work abroad experience



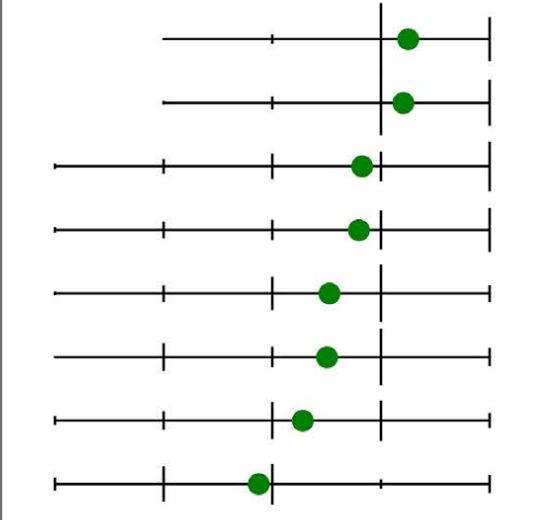
Results – Improved Employment Prospects in Academia



Master's Students

(b)

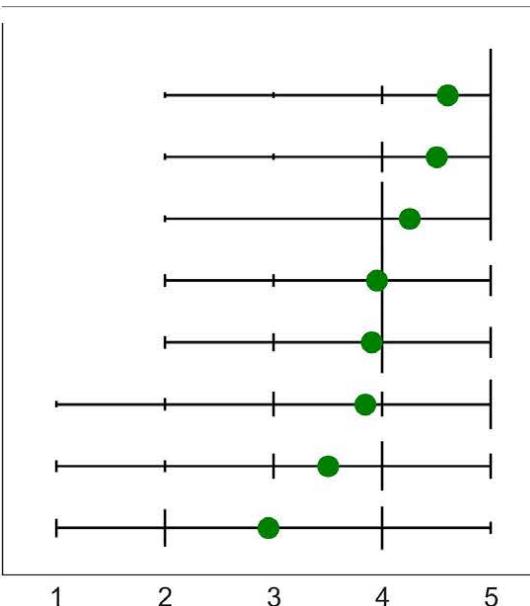
- The research relevant to the program fits my interests
- The overall prospects of this field
- The opportunity to apply for scholarship of an overseas Ph.D. program after graduation
- The opportunity of applying for an overseas Ph.D. program after graduation
- Alumni in academia
- The opportunity to pursue a Ph.D. degree at the destination university
- The difficulty of immigration to the destination country after working in academia
- The opportunity of applying for a Ph.D. program in China after graduation



Doctoral Students

(c)

- The research relevant to the program fits my interests
- The overall prospects of this field
- Alumni in academia
- The salary and funding as an overseas faculty after graduation
- The opportunity to find an overseas faculty position after graduation
- The opportunity to apply for funding and be selected for talented programs in China after graduation
- The difficulty of immigration to the destination country after working in academia
- The opportunity to obtain a faculty position at the destination university after graduation



Key Takeaways

- Research fit applicants' interests and overall prospects of the field ranked highest for both Master's and Doctoral applicants
- Difficulty of immigration is relatively unimportant

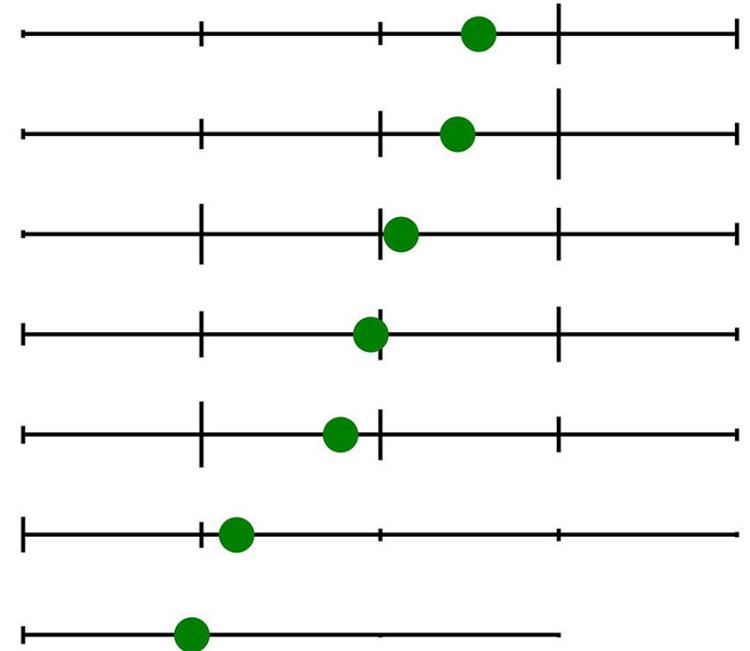
Results – Personal Recommendations



Personal Recommendations

(a)

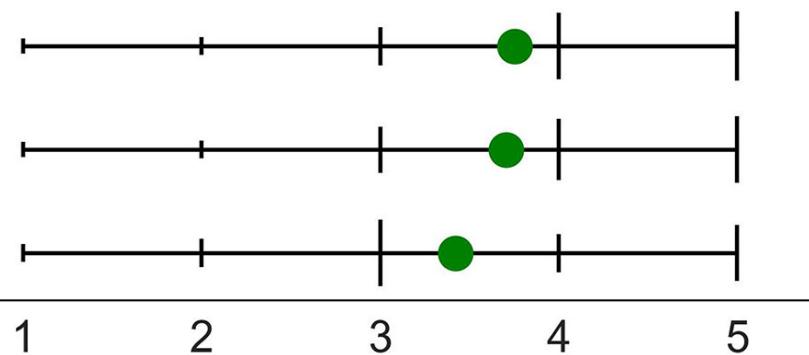
- Academic advisor
- Senior students of the same major
- Classmates of the same major
- Parents
- Friends who are not in the same major
- Non-academic tutor
- Relatives living overseas



Online Resources

(b)

- The GISphere Guide website or other similar resources
- The GISphere application experience blogs or other similar resources
- Other students who are applying for GIS-related programs in the GISphere community



Results – Application Process

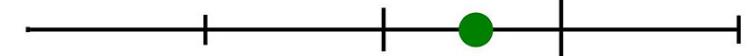


Admission Process

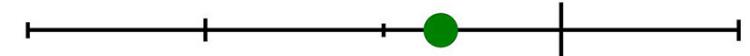
(a) The detailed information of the university or department's website



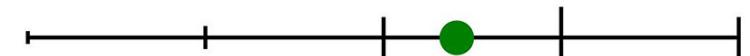
Friendliness of the application system



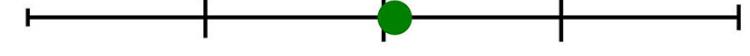
Friendliness of admissions staff



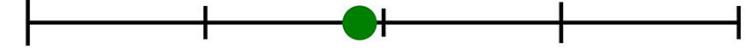
(b) GRE scores are not required



The university can issue a conditional offer with a language requirement



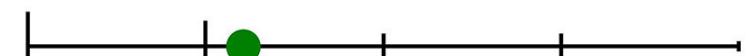
No interview required



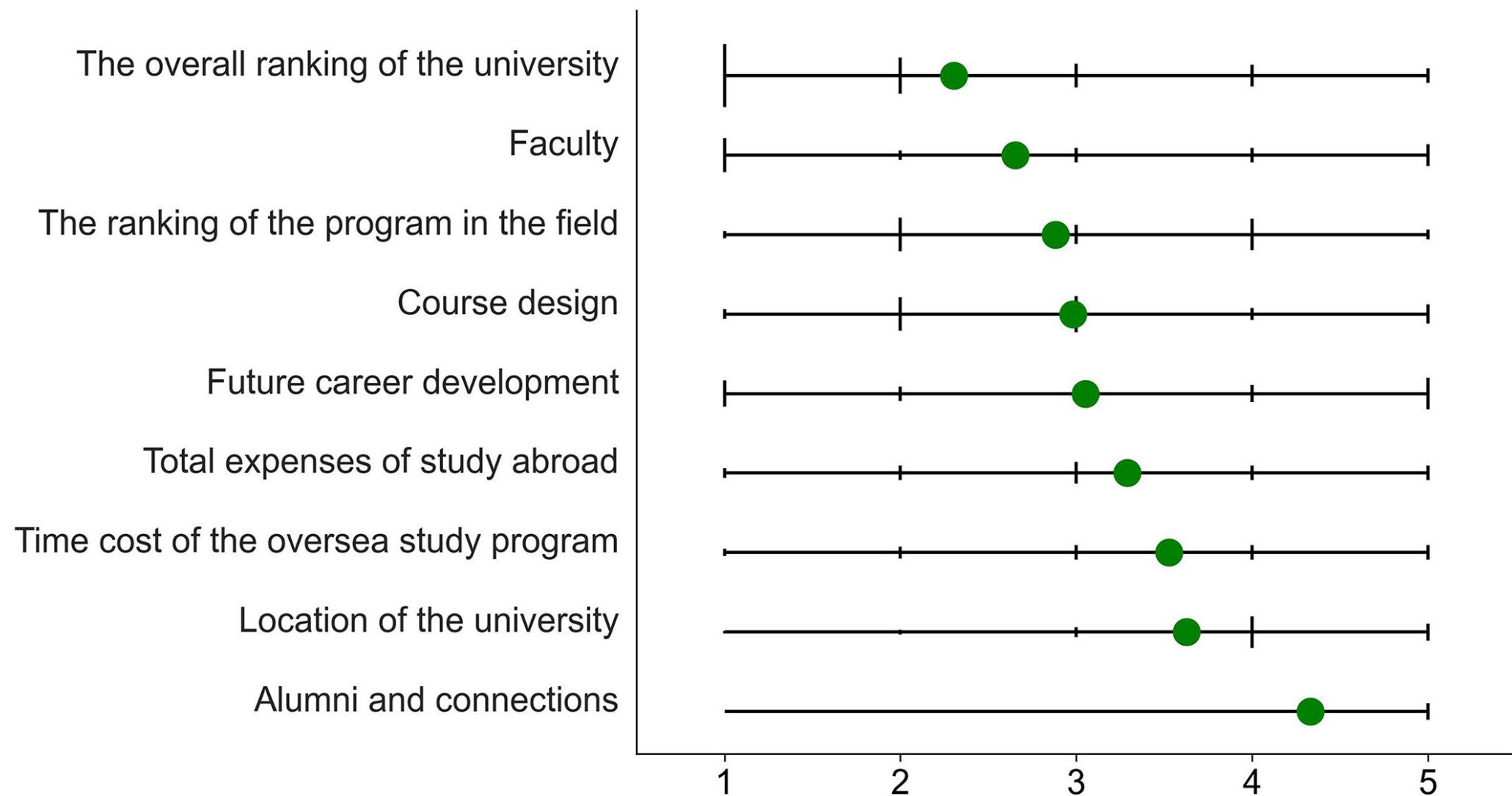
The university accepts language scores other than IELTS and TOEFL (e.g. duolingo)



Admission Requirements



Results – Overall Rankings of Factors

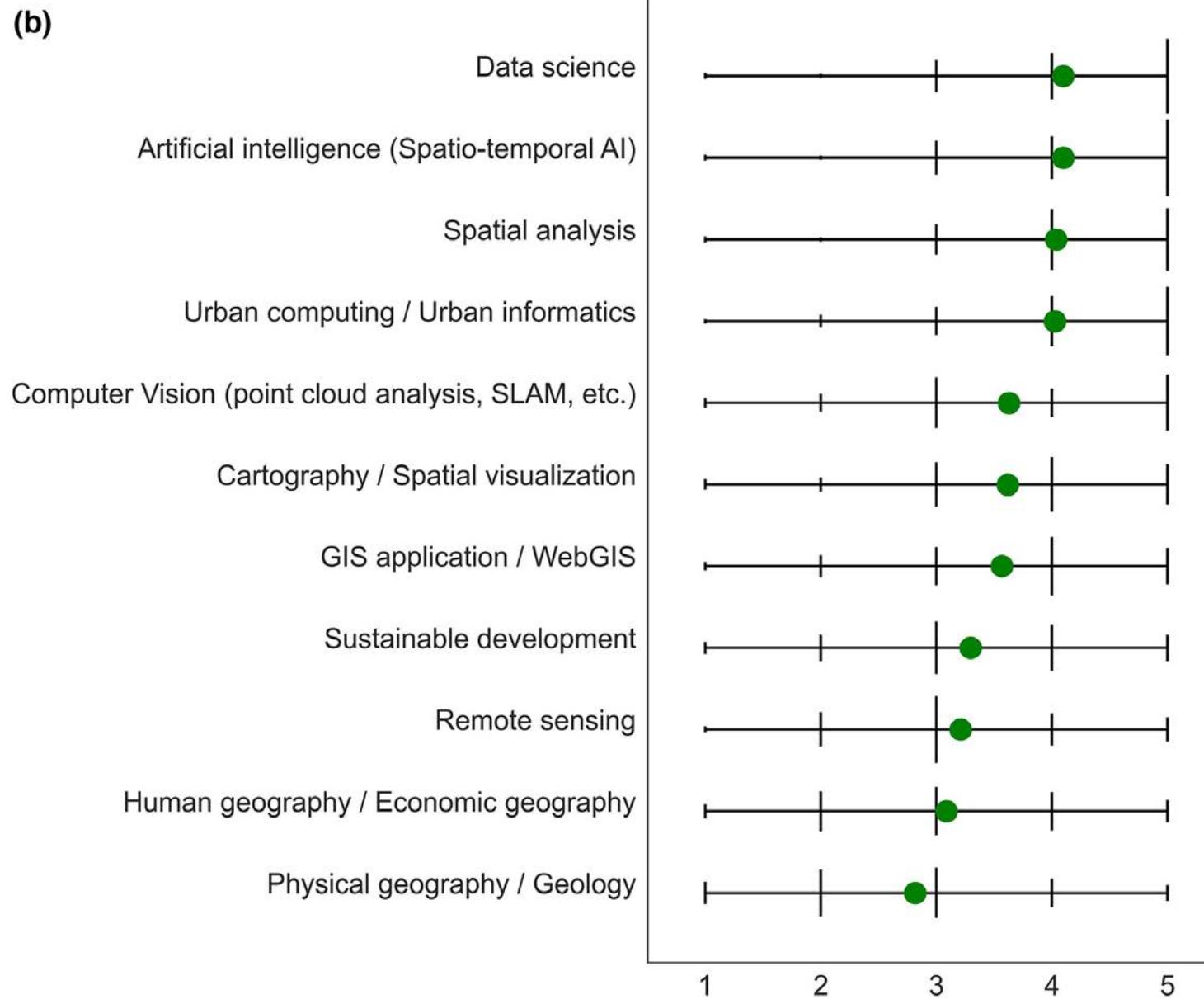


Notice: 1 represents the **highest** priority and 5 represents the **lowest** priority

Implications for GIS Programs: Students' Expectations



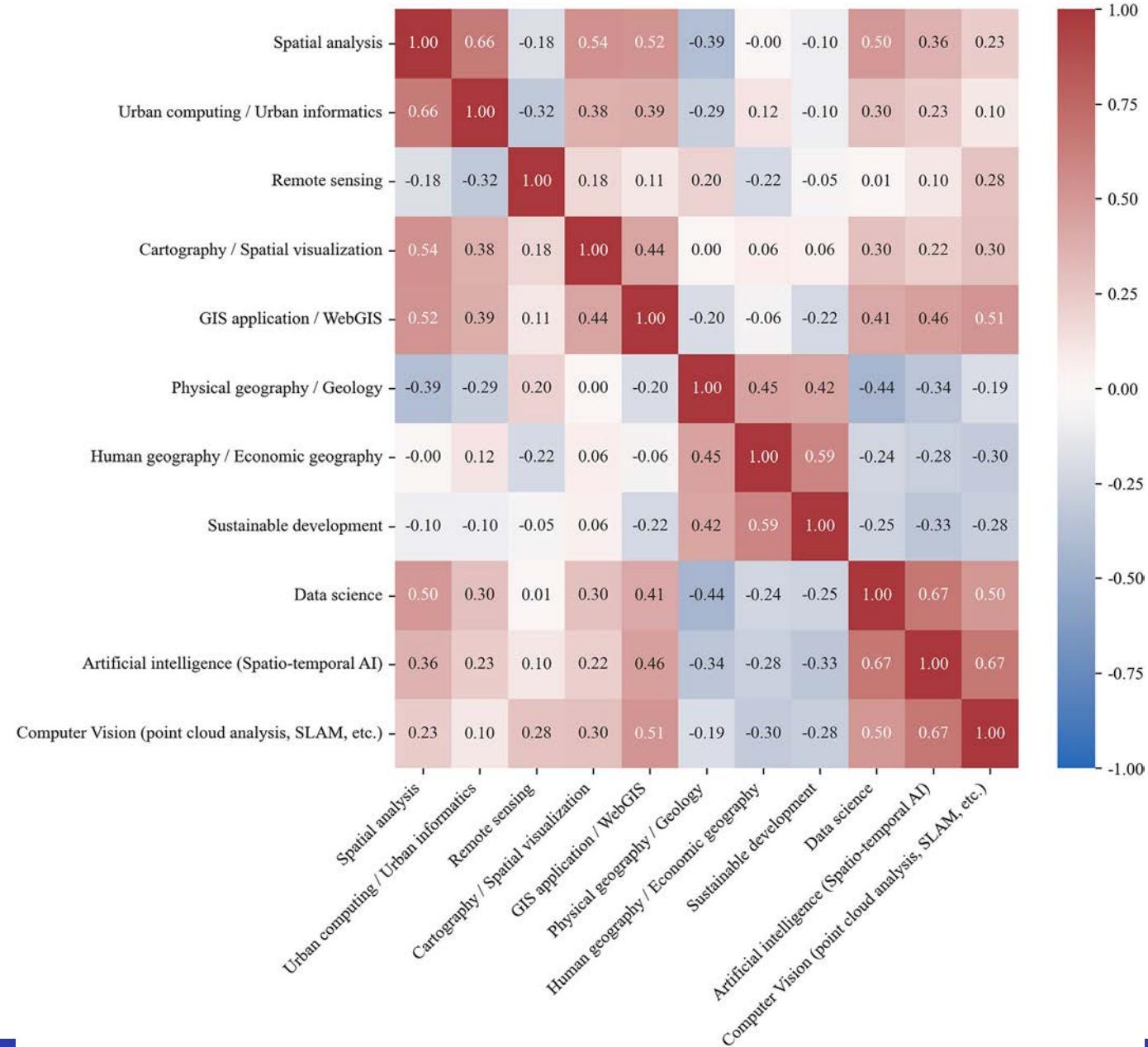
(b)



Implications for GIS Programs: Popular Topics



Popular course topics and their correlations





1

This is the first study to understand the process of students choosing GIS graduate programs

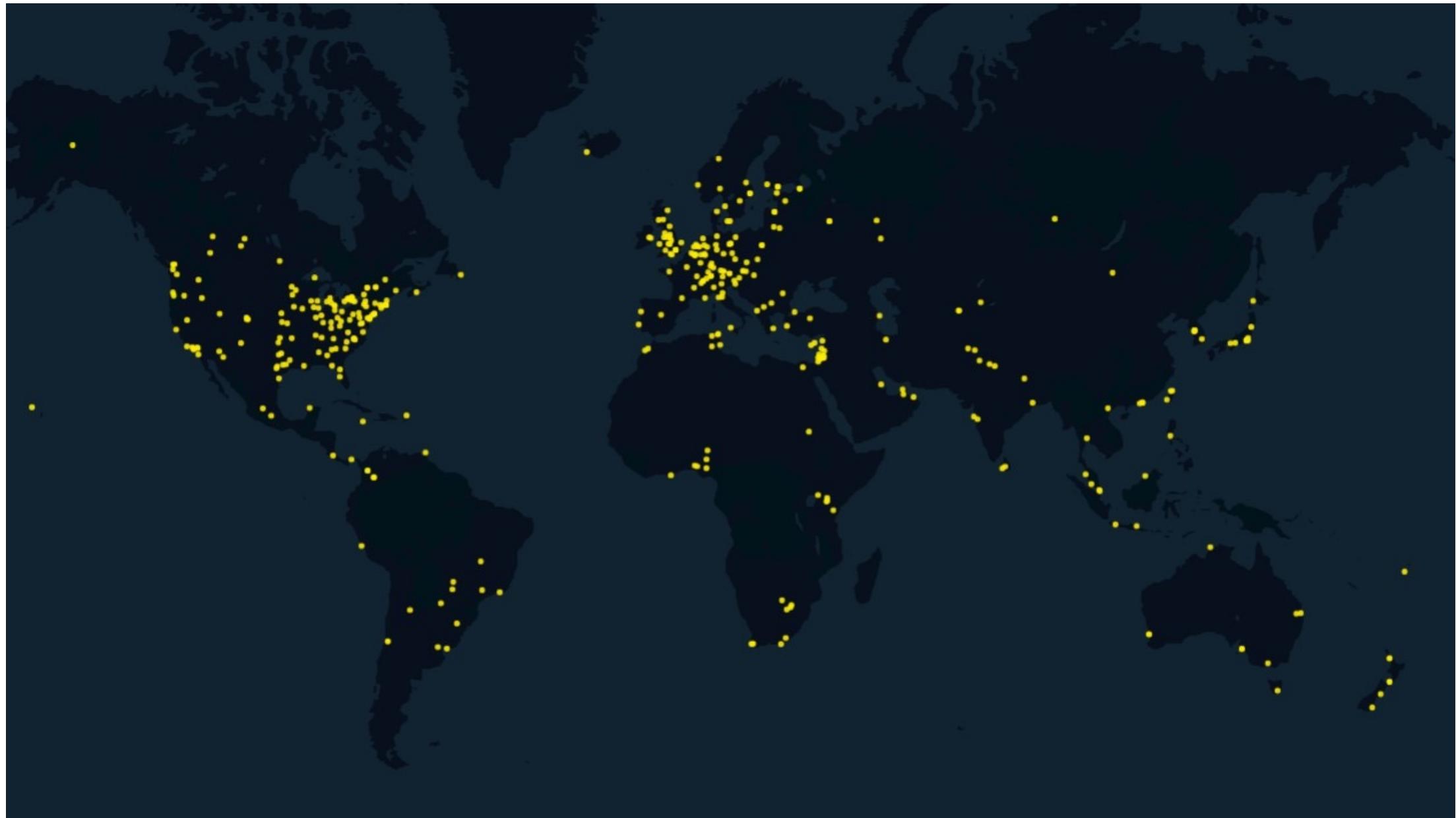
2

We identified five key factors: (1) education quality and awareness, (2) physical, social, and political environments, (3) improved employment prospects, (4) personal recommendations, and (5) application process

3

We provide practical insights for both GIS applicants and GIS graduate program managers to promote global GIS education

GISphere院校指南数据分布图



一起贡献中国大陆院校指南



- 采取众包形式，目前已搜集39所学校共5万字信息
- GIS相关专业（包括地理、规划、遥感、导航等）的院系及导师研究方向
- 链接：<https://docs.qq.com/sheet/DVXVoYnRIZEIWm9Z>

 【GIS-Info中国大陆院校指南】第一期众包数据库

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本列表列入了大部分GIS及相关专业院校。如果你的学校不在名单上，非常欢迎大家编辑以上【新增院校模板】并重命名单元格，我们会定期将已修改模板更新到下方院校目录中。

 **中国大陆院校目录**

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C	长安大学	长春师范大学	长江大学	长沙理工大学	成都理工大学	重庆交通大学
D	重庆师范大学	东北林业大学	东华理工大学	东南大学	东北大学	
F	福建农林大学	福建师范大学	福州大学			
G	广州大学	贵州师范大学				
H	哈尔滨师范大学	海南师范大学	合肥工业大学	河北师范大学	河海大学	河南财经政法大学
	河南大学	河南理工大学	湖北大学	湖北师范大学	湖南师范大学	华北水利水电大学



中国地质大学（武汉）

China University of Geoscience (CUG)

中国，湖北省，武汉市

地理与信息工程学院

网站链接：🔗 <https://xgxy.cug.edu.cn/>

中国地质大学（武汉）与中国地质大学（北京）同根同源，在地图制图学，地质建模等领域有非常强有力的影响。

地理与信息工程学院是由中国地质大学（武汉）和中国科学院地理科学与资源研究所、中国科学院精密测量科学与技术创新研究院（原测量与地球物理研究所）共建的学院，由中国地质大学（武汉）原信息工程学院、原地球科学学院地理科学系、原公共管理学院区域规划系合并组建，2019年12月21日正式揭牌，是中国地质大学（武汉）完善以地球系统科学为特色的学科生态系统的一个重要战略举措。

学院建有“国家地理信息系统工程技术研究中心”、“地理信息系统软件及其应用教育部工程研究中心”、“洞庭湖区生态环境遥感监测湖南省重点实验室”、“流域关键带演化湖北省重点实验室”等学术平台。以吴信才教授为首的科研集体研制成功我国第一套彩色地图编辑出版系统“MAPCAD”，研制开发出具有自主知识产权的大型GIS平台软件“MAPGIS”，成为国家科技部推荐首选的GIS平台软件，三次荣获国家科技进步二等奖，曾应用于我国“神舟”系列飞船的返回搜救系统等国家重大工程项目，是国产软件的杰出代表。地理学在地貌学与第四纪地质学、全球变化等方面形成了一定的国际学术影响，获得国家自然科学二等奖和湖北省自然科学一等奖各1项。地理学研究团队获得国家自然科学二等奖、湖北省自然科学一等奖各1项。近五年，学院教师以第一作者在Science、PNAS、Nature Communications、Nature Geoscience等具有重要影响力的期刊上发表论文1000余篇。

学院教学单位：设有空间信息系、地理科学系、测绘遥感系和实验教学中心共4个教学单位。

国家地理信息系统工程技术研究中心 ↗ <https://gis.cug.edu.cn/> 现有“资源与环境”和“电子信息”工程硕士学位授权点以及“测绘科学与技术”博士学位授权点，下设地理环境感知、地理空间认知、地理仿真决策和软件应用四个研究所。

- 目前共计收集2个学院及6位教授信息

▼ 中国地质大学（武汉）

▶ 地理与信息工程学院

▶ 计算机学院

公共管理学院

经管学院

地学院

▶ 李四光学院



武汉理工大学

Wuhan University of Technology (WUT) 中国, 湖北, 武汉 GIS 相关系所:

空间信息与规划系

武汉理工大学 GIS 专业开设在资源与环境工程学院的空间信息与规划系下面，招收地理学研究生，研究方向偏开发、遥感、深度学习，如复杂系统分析与集成、环境遥感、空间信息技术集成与建模、空间数据挖掘与智能计算等，同时也有城市规划、经济地理、自然地理相关的研究方向。空间信息与规划系的老师招收环境遥感方向的博士生，同时也跨学科招收土木工程、环境科学与工程相关的博士生（跨专业招博士）。

相关导师：

- ∅ 黄解军：空间信息技术集成与建模、空间数据挖掘与智能计算、资源环境遥感；
- ∅ 何青青：环境遥感、空气污染、地统计、人工智能与大数据
- ∅ 詹云军：生态环境遥感、城市遥感与模拟；
- ∅ 尹章才：时间地理与 Web GIS；
- ∅ 张晓盼：复杂系统分析与集成、地理信息系统；
- ∅ 袁艳斌：地理信息科学、水资源优化、环境地理信息系统、数字矿山；
- ∅ 张明：城市生态环境遥感；
- ∅ 张旭：城市地理、经济地理、城市与区域规划；
- ∅ 董恒：环境遥感与地理信息建模；
- ∅ 周晗：时空建模、水资源优化；
- ∅ 姜良存：地理信息科学、遥感人工智能样本库；
- ∅ 黎华：地理建模、三维地理信息系统、地理信息系统开发与应用；
- ∅ 俞艳：智能地学计算 在土地资源管理及国土空间规划中的建模与应用；
- ∅ 梁友嘉：景观生态学(生态系统服务)；
- ∅ 龚珍：地理信息变化统计与开发，房地产造价与评估；

- 目前共计收集1个学院及15位教授信息



武汉大学

Wuhan University (WHU)

中国，湖北，武汉

资源与环境科学学院

🔗 <https://sres.whu.edu.cn/index.htm>

所有导师名单: ↗ <https://sres.whu.edu.cn/szdw1/dlxxydtkxx.htm>

武汉大学资源与环境科学学院由原武汉测绘科技大学土地科学学院、原武汉大学环境科学与工程系、原武汉水利电力大学环境工程专业于2001年1月合并组建成立，是一个集理、工、管理于一体多学科交叉的综合性学院。学院涵盖地理学、环境科学与工程、测绘科学与技术、公
共管理等四个一级学科。

相关导师:

费腾 (Teng Fei)

🔗 <https://only4john.github.io/>

城市地理大数据，生态遥感应用，地理信息科学相关

沈焕峰 (Huanfeng Shen)

遥感图像处理、去云、重建、质量评估

🔗 <http://sendimage.whu.edu.cn/shenhf/>

<研究方向（中文）>

苏世亮 (Shiliang Su)

🔗 <http://jszy.whu.edu.cn/sushiliang>

地理时空建模与可视化：对人观测大数据分析与挖掘，社会系统时空演化智能模拟，高价值社会场景可视化重现

杨敏 (Min Yang)

🔗 <https://sres.whu.edu.cn/info/1362/20986.htm>

数字地图自动制图理论与方法、移动GIS与位置服务、数字航道与电子海图服务、GIS 工程设计与开发等

蔡忠亮 (Zhongliang Cai)

- 目前共计收集6个学院及25位教授信息

▼ 武汉大学

- ▶ 资源与环境科学学院
- ▶ 遥感信息工程学院
- ▶ 测绘学院
- ▶ 测绘遥感信息工程国家重点实验室
- ▶ 卫星导航定位技术研究中心 (GNSS中...)
- ▶ 城市设计学院