

The 41st International Pupils' Attitudes Towards Technology Educational Research Conference

Nanjing Normal University, Nanjing, China
Tuesday 22nd October to Friday 25th October 2024

URL:<https://patt41nanjing.com>

Email:patt41nanjing@126.com

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第41届学生技术态度国际研讨会

南京师范大学，南京，中国

2024年10月22日星期二至10月25日星期五

会议网址：<https://patt41nanjing.com>

会议邮箱：patt41nanjing@126.com

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凯莉·杜利，国际技术与工程教育协会(ITEEA)执行主席，美国



PATT 41 Nanjing 2024



VENUE

No.122 Ninghai Road, Gulou District, Nanjing, Jiangsu, China, 210097

Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University

地点

中国江苏省南京市鼓楼区宁海路 122 号， 210097

南京师范大学随园校区 100 号楼二楼报告厅



第 41 届学生技术态度国际研讨会会议议程

Conference Programme of the 41st International Pupils' Attitudes Towards Technology Educational Research Conference

| 日期/Date | 时间/Time | 地点/Venue | 活动/Activities |
|--------------|-----------------------------------|---|------------------------------------|
| 2024. 10. 21 | 09:00-22:00 | 国内专家：隽恒酒店 Chinese experts: Junheng Hotel | 签到 Registration |
| 2024. 10. 22 | 08:00-09:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 签到 Registration |
| | 09:00-12:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 开幕式 Opening Ceremony |
| | | | 主旨发言 Keynote Speech |
| | 12:00-13:00 | 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant | 午餐 Lunch |
| | 13:00-13:45 | 南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 教材展示 Textbooks Exhibition |
| | 14:00-18:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 分论坛一 Parallel Session 1 |
| | | | 分论坛二 Parallel Session 2 |
| | | | 分论坛三 Parallel Session 3 |
| 19:00-21:00 | 南京景点游览 Walking Tour of Nanjing | 非正式社交活动 'Informal' Social Activity | |
| 2024. 10. 21 | 09:00-12:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 回顾与讨论 Reflection and Discussion |
| | | | 主旨发言 Keynote Speech |
| | 12:00-13:00 | 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant | 午餐 Lunch |



| 日期/Date | 时间/Time | 地点/Venue | 活动/Activities |
|--------------|-------------|---|---|
| | 13:00-13:45 | 南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 教材展示 Textbooks Exhibition |
| | 14:00-16:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 分论坛一 Parallel Session 1 |
| | | 南京师范大学随园校区田家炳北楼 307 307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 圆桌论坛一 Workshop 1 |
| | 16:00-18:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 分论坛二 Parallel Session 2 |
| | | 南京师范大学随园校区田家炳北楼 307 307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 圆桌论坛二 Workshop 2 |
| | 19:00-21:00 | 秦淮人家用餐 Dineer at Qinghuai Renjia 传统乐器演奏 Traditional Instrument Performance 夜游白鹭洲岛 Night Tour of Egret Island | 会议晚宴及夜游体验 Conference Gala Dinner and Night Tour Experience |
| 2024. 10. 24 | 09:00-12:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 回顾与讨论 Reflection and Discussion |
| | | | 主旨发言 Keynote Speech |
| | 12:00-13:00 | 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant | 午餐 Lunch |
| 2024. 10. 24 | 13:00-13:45 | 南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 教材展示 Textbooks Exhibition |
| | 14:00-17:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 分论坛一 Parallel Session 1 |
| | | 南京师范大学随园校区田家炳北楼 307 307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University | 分论坛二 Parallel Session 2 |



| 日期/Date | 时间/Time | 地点/Venue | 活动/Activities |
|--------------|-------------|---|-------------------------|
| | 17:30-18:00 | 南京师范大学随园校区 100 号楼二楼报告厅 Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus, Nanjing Normal University | 闭幕式 Closing Ceremony |
| | 18:00-19:00 | 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant | 晚餐 Dinner |
| | 19:00-21:00 | 自由安排 Free Time | |
| 2024. 10. 25 | 09:00-10:30 | 江宁织造博物馆 Jiangning Imperial Silk Manufacturing Museum | 参观见学 Site Visit |
| | 10:30-12:00 | 金陵中学 Jin Ling High School | |
| | 12:00-13:00 | 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant | 午餐 Lunch |



第一天 | Day #1

2024年10月22日星期二 | Tuesday 22nd October 2024
南京师范大学随园校区 100 号楼二楼报告厅
Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator
陶莹副教授 | Assoc. Professor Tao Ying

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| 8:00-9:00 | 签到 Registration |
| 9:00-9:30 | 欢迎致辞 Opening Greetings <ul style="list-style-type: none">● Ren Leiming, Member of the Standing Committee of the CPC Nanjing Normal University Committee and Chief Financial Office 任雷鸣, 南京师范大学党委常委、总会计师● Professor Gu Jianjun, Nanjing Normal University, UNESCO Chair on Technology and Engineering Education for Children and Youth, Director of the National Key Research Base for the Construction of General Technology Textbooks for primary and secondary schools 顾建军教授, 南京师范大学, 联合国教科文组织儿童青少年技术与工程教育教席主持人, 国家中小学通用技术教材建设重点研究基地主任 |
| 9:30-10:00 | 主席致辞 President of PATT Greetings <ul style="list-style-type: none">● Professor Marc de Vries, Delft University of Technology, Netherlands, Editor-in-chief of International Journal for Design and Technology Education, Editor-in-chief of the International Technology Education Studies book series Co-founder Association of Technology Teachers, Chairman of the PATT-Foundation 博士, 教授, 荷兰代尔夫特理工大学, 国际设计与技术教育杂志主编、国际技术教育研究丛书的主编、技术教师协会的联合创始人、PATT 创始人及主席 |
| 10:00-10:05 | 现场集体合影 Group Photo |
| 10:05-10:25 | 茶歇 BREAK&REFRESHMENTS |



| 主持人 Moderator 赵丽 Zhao Li | |
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| 10:25-10:50 | <p>Topic:K 12 Technical and engineering education and student development 主题：中小学技术与工程教育与学生发展</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor Gu Jianjun, Nanjing Normal University 顾建军教授，南京师范大学 |
| 10:50-11:15 | <p>Topic:STEM education and engineering thinking 主题：STEM 教育与工程思维</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor Li Shuangshou, Tsinghua University 李双寿教授，清华大学 |
| 11:15-11:40 | <p>Topic:Developing sustainable policy and practice for design and technology educational research:Engaging with stakeholders in England 主题：为英国设计与技术教育研究制定可持续的政策与做法——鼓励英国利益相关者参与其中</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. Matt McLain, Liverpool John Moores University, UK 马特·麦克莱恩博士，英国利物浦约翰摩尔斯大学 |
| 11:40-12:05 | <p>Topic:Effects of different interventions to treat errors during STEM learning on improving young children' s psychological resilience 主题：探究 STEM 教育中不同困难应对策略对于提高幼儿心理韧性的影响</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. Zhao Li, Nanjing Normal University 赵丽博士，南京师范大学 |
| 12:05-12:15 | 提问、回应与讨论 Questions, responses and discussion |
| 12:15-13:00 | <p>午餐 LUNCH 南山专家楼留学生餐厅 Nanshan Expert Building Restaurant</p> |
| 13:00-13:45 | <p>教材展示 Textbooks Exhibition 南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University</p> |



分论坛一 | Parallel Session 1

2024年10月22日 14:00–18:00 | October 22nd, 2024, 14:00–18:00

南京师范大学随园校区 100 号楼二楼报告厅

Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator

Dr. Jeffrey Buckley

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| 14:00–14:20 | <p>Topic: Technology and engineering education: Project approach in learnings 主题: 技术与工程教育: 项目式学习方法</p> <p>● Keynote speaker: Professor Antony Leung, (Hong Kong Special Administrative Region) Teacher-in-charge of the Teaching Excellence Award Teacher Studio, Education Consultant at The Education University of Hong Kong 梁伟业教授(香港特别行政区)卓越教学奖教师工作室主持人, 香港教育大学教育顾问</p> |
| 14:20–14:40 | <p>Topic: Teaching strategies for cultivating high-order thinking skills in technology and engineering education 主题: 技术与工程教育中培养高阶思维技能的教学策略研究</p> <p>● Keynote speaker: He Kaiqiang, Teaching and Research Personnel, Beijing Institute of Education Fengtai branch 贺凯强, 北京教育学院丰台分院教研员</p> |
| 14:40–15:00 | <p>Topic: Development status and research of K12 technology and engineering education in Cambodia 主题: 柬埔寨技术与工程教育的发展现状与研究</p> <p>● Keynote speaker: Dr. Tieng Kimseng, Royal University of Phnom Penh, Cambodia Tieng Kimseng 博士, 柬埔寨金边皇家大学</p> |
| 15:00–15:20 | <p>Topic: The design of a learning project integrating physics and technology & engineering education in a project-based learning model 主题: 基于项目式学习模式设计一种物理与技术工程教育融合的学习项目</p> <p>● Keynote speaker: Haoyu Luo, Nanjing Normal University, School of Teacher Education 罗昊宇, 南京师范大学教师教育学院</p> |
| 15:20–15:40 | <p>Topic: Promoting primary school students' creativity via reverse engineering pedagogy in robotics education 主题: 基于项目式学习模式设计一种物理与技术工程教育融合的学习项目在机器人教育中运用逆向工程教学法促进小学生的创造力</p> <p>● Keynote speaker: Dr. Liu Xiaohong, South China Normal University</p> |



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| | 刘晓红博士，华南师范大学 |
| 15:40-15:50 | 提问、回应与讨论 Questions, responses and discussion |
| 15:50-16:10 | 茶歇 BREAK&REFRESHMENTS |
| 主持人 Moderator Professor John P. Williams | |
| 16:10-16:30 | Topic: Mobile learning and dance education:Accessibility and learning outcomes 主题: 移动学习和舞蹈教育: 可达性与学习成果 <ul style="list-style-type: none"> ● Keynote speaker: Dr. Ruvini Batuwangala, Nanjing Normal University Ruvini Batuwangala 博士, 南京师范大学 |
| 16:30-16:50 | Topic: Curriculum integration:Matariki-The Māori New Year 主题: 课程整合: Matariki-The Māori New Year <ul style="list-style-type: none"> ● Keynote speaker:Dr. Ruth Lemon, Technology Education New Zealand 露丝·莱蒙博士, 新西兰技术教育协会 |
| 16:50-17:10 | Topic: Physical-chemical oriented science and technology innovation practice:Construction and implementation of the curriculum group of technology and engineering education in primary schools 主题: 物化导向的科创实践: 小学技术与工程启蒙教育课程群构建与实施 <ul style="list-style-type: none"> ● Keynote speaker:Zhang Xiaoping, Secretary of the Party Committee, Jiaxing Experimental Primary School 张晓萍, 嘉兴市实验小学党委书记 |
| 17:10-17:30 | Topic: A primer on the use of R to analyse think aloud protocols through linkography 主题: 使用 R 语言通过链接图法分析“出声思考”的入门指南 <ul style="list-style-type: none"> ● Keynote speaker:Dr. Jeffrey Buckley, Technological University of the Shannon 杰弗里·巴克利博士, 香农科技大学 |
| 17:30-17:50 | Topic: The relationships among meta cognitive strategies, acculturation, learning attitude, perceived value, and continuance intention to use YouTube to learn English 主题: 元认知策略、文化适应、学习态度、感知价值与持续使用YouTube学习英语意图之间的关系 <ul style="list-style-type: none"> ● Keynote speaker:Zhu Yinkun, Nanjing Normal University 朱胤昆, 南京师范大学 |
| 17:50-18:00 | 提问、回应与讨论 Questions, responses and discussion |



分论坛二 | Parallel Session 2

2024年10月22日 14:00–18:00 | October 22nd, 2024, 14:00–18:00

南京师范大学随园校区田家炳北楼 305

305 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University

主持人 | Moderator

Dr. Liam Maquet

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| 14:00–14:20 | <p>Topic:Curriculum integration:Café case study—Te Kāuta 主题：课程整合：咖啡馆案例研究——Te Kāuta</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Ruth Lemon, Technology Education New Zealand 露丝·莱蒙博士，新西兰技术教育协会 |
| 14:20–14:40 | <p>Topic:Practical strategies for strengthening engineering education in the teaching of general technology courses 主题：在通用技术课程教学中加强工程教育的实践策略</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Tan Lingying, Beijing No. 11 High School 谭凌鹰博士，北京十一中学 |
| 14:40–15:00 | <p>Topic:Robotics application research in K12 education:A systematic literature review 主题：机器人技术在K12教育中的应用研究——一项系统性文献综述</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Wang Yang, Nanjing Normal University 王洋博士，南京师范大学 |
| 15:00–15:20 | <p>Topic:Design teaching in classroom practice:Phase 1 of a grounded theory study in technology education 主题：课堂实践中的设计教学：技术教育基础理论研究的第一阶段</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Manus McDyer, Technological University of the Shannon 马努斯·迈克戴尔博士，香农科技大学 |
| 15:20–15:40 | <p>Topic:Critical analysis of the technological affordances, challenges and future directions of Generative AI in education:A systematic review 主题：生成式人工智能在教育领域的技术优势、挑战及未来发展方向的批判性分析：一项系统综述</p> <ul style="list-style-type: none">● Keynote speaker:Wang Nan, Nanjing Normal University 王楠，南京师范大学 |
| 15:40–15:50 | 提问、回应与讨论 Questions, responses and discussion |
| 15:50–16:10 | 茶歇 BREAK&REFRESHMENTS |



| 主持人 Moderator 杨萍教授 Professor Yang Ping | |
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| 16:10-16:30 | <p>Topic: Does medium matter? Exploring validity in paper and digital spatial ability tests in secondary education 主题：媒介重要吗？——中学阶段开展空间能力纸笔测试和数字测试的效度比较研究</p> <p>● Keynote speaker: Dr. Liam Maquet, Technological University of the Shannon 利亚姆·马奎特博士，香农科技大学</p> |
| 16:30-16:50 | <p>Topic: The development of preschool children' engineering habits of mind in engineering play with block: Based a epistemic network analysis 主题：学龄前儿童积木工程游戏中工程思维习惯的培养研究——基于认知网络分析</p> <p>● Keynote speaker: Dr. Liu Yue, Nanjing Normal University 柳月博士，南京师范大学</p> |
| 16:50-17:10 | <p>Topic: Challenges of technology of education in Congolese educational system 主题：刚果教育系统中技术教育的挑战</p> <p>● Keynote speaker: Dr. Moutou Ngambiki, Nanjing Normal University, Republic of Congo Moutou Ngambiki 博士，南京师范大学，刚果</p> |
| 17:10-17:30 | <p>Topic: Scaffolding design and practice in project-based teaching for engineering literacy enlightenment - Case study of project "lightweight heavy-load transport vehicle" in middle school labor course 主题：工程素养启蒙项目式教学中的教学支架设计与实践——以中学劳动课“轻型重载运输车”项目为例</p> <p>● Keynote speaker: Dr. Tan Lingying, Beijing No. 11 High School 谭凌鹰博士，北京十一学校</p> |
| 17:30-17:50 | <p>Topic: Space re-engineering: The construction of "Information Science and Technology Innovation Center" focusing on the development of technology and engineering literacy 主题：空间再造：聚焦技术与工程素养发展的“嘉实信息科创中心”建设</p> <p>● Keynote speaker: Tao Yimin, Vice Headmaster, Jiaxing Experimental Primary School 陶轶敏，嘉兴市实验小学副校长</p> |
| 17:50-18:00 | 提问、回应与讨论 Questions, responses and discussion |



分论坛三 | Parallel Session 3

2024年10月22日 14:00–18:00 | October 22nd, 2024, 14:00–18:00

南京师范大学随园校区田家炳北楼 307

307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University

主持人 | Moderator

Dr. Matt McLain

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| 14:00–14:20 | <p>Topic: Engaging underrepresented minorities in STEAM through indigenous stories</p> <p>主题：通过本土故事鼓励代表性不足的少数民族参与 STEAM</p> <ul style="list-style-type: none"> ● Keynote speaker: Dr. Allan Fowler, University of Auckland 艾伦·福勒博士，新西兰奥克兰大学 |
| 14:20–14:40 | <p>Topic: Practical research based on Goldberg Simple Machinery Project on the cultivation of engineering thinking of high school general technology</p> <p>主题：高中通用技术课程中的戈德堡简单机械项目对于学生工程思维培养的实证研究</p> <ul style="list-style-type: none"> ● Keynote speaker: Wang Bo, Ziwei Senior High School in Haining City, Zhejiang Province 王波，浙江省海宁市紫微高中 |
| 14:40–15:00 | <p>Topic: The educational function and realization of public welfare K-12 STEM education</p> <p>主题：公益性 K-12 STEM 教育的育人功能及其实现</p> <ul style="list-style-type: none"> ● Keynote speaker: Xiuming Huang, Nanjing Normal University 黄修明，南京师范大学 |
| 15:00–15:20 | <p>Topic: Technology and engineering education in primary and secondary schools under the background of “Holistic Education”: Implications, values, and paths</p> <p>主题：“全人教育”背景下的中小学技术与工程教育：内涵、价值与路径</p> <ul style="list-style-type: none"> ● Keynote speaker: Wang Xiwen, Jiangsu Normal University 王悉文，江苏师范大学 |
| 15:20–15:40 | <p>Topic: Relationships among students’ hands-on making self-efficacy, incremental belief of intelligence, help-seeking attitudes, and continuance intention to participate in a STEAM contest</p> <p>主题：学生动手制作自我效能感、智力增长信念、求助态度与持续参与 STEAM 竞赛意愿的相关关系研究</p> <ul style="list-style-type: none"> ● Keynote speaker: Yang Dan, Nanjing Normal University 杨丹，南京师范大学 |
| 15:40–15:50 | <p>提问、回应与讨论 Questions, responses and discussion</p> |
| 15:50–16:10 | <p>茶歇 BREAK&REFRESHMENTS</p> |



| 主持人 Moderator Professor Aurelio Vilbar | |
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| 16:10-16:30 | <p>Topic:Experiences in pedagogy of design: Design-based design brief concept learning through Technasium design project assignments 主题：设计教学法的经验：基于设计的设计概要概念学习通过 Technasium 设计项目任务</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor S. de Haan Topolscak, Delft University of Technology S. de Haan Topolscak 教授，代尔夫特理工大学 |
| 16:30-16:50 | <p>Topic:Developed of the engineering and technology lesson plans analysis instrument based on student deeper learning 主题：基于学生深度学习的技术与工程教案分析工具的开发</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. He Yuze, Beijing Normal University 何雨泽博士，北京师范大学 |
| 16:50-17:10 | <p>Topic:Analysis of inquiry tendency in general technology subject textbook for Chinese high school by Romey' s method 主题：基于 Romey 法的中国高中通用技术学科教材的探究倾向分析</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. Hao YuanXiang, Nanjing Normal University 郝元祥博士，南京师范大学 |
| 17:10-17:30 | <p>Topic:Analysis of conceptual structures in the chapter of 'structure & design' in three versions of Chinese high school technology and engineering curriculum textbooks:Based on the interpretative structural modeling method 主题：三版高中技术与工程课程教材“结构与设计”章节的概念结构分析——基于解释结构建模方法</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. Yang Youwei, Nanjing Normal University 杨友为博士，南京师范大学 |
| 17:30-17:50 | <p>Topic:Effects of goal achievement motivation on K-12 students' resilience in STEAM activities:The mediating role of in-school social supports 主题：目标成就动机对K-12学生学习韧性的影响研究：校内社会支持的中介作用</p> <ul style="list-style-type: none"> ● Keynote speaker:Zhan Yuanmeng , Nanjing Normal University, School of Educational Science 占圆梦，南京师范大学教育科学学院 |
| 17:50-18:00 | 提问、回应与讨论 Questions, responses and discussion |



非正式社交活动

‘Informal’ Social Activity

■ ‘Informal’ Social Activity: Walking Tour of Old Town

■ Time: 19:00–21:00

Old Town, also known as Lao Men Dong, is a famous historical and cultural area in Nanjing, China. It is a place where the old Nanjing city wall and traditional buildings are well-preserved. The Old Town area features quaint streets, century-old houses, and traditional shops that have been in business for generations. The ambiance of the area is filled with a sense of nostalgia, as one can imagine what life was like in old Nanjing. In addition to the historical and cultural significance, Old Town is also a popular destination for food lovers. The area is lined with various eateries and restaurants offering traditional Nanjing cuisine, such as salted duck, duck blood and vermicelli soup, and pan-fried buns.

老门东，又称为老南京，是中国南京著名的历史文化区。这是一个保存完好的古老南京城墙和传统建筑的地方。老门东地区有古朴的街道，百年老宅和生意代代传承的传统商店。这里充满了怀旧的氛围，人们可以想象在古老的南京是怎样的生活。除了历史和文化意义，老门东也是美食爱好者的热门目的地。这个地区到处都是提供传统南京美食的小吃店和餐馆，比如盐水鸭、鸭血粉丝汤和生煎包。



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第二天 | Day #2

2024年10月23日星期三 | Wednesday 23rd October 2024
南京师范大学随园校区 100 号楼二楼报告厅
Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator
Professor John P. Williams

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| 8:00-9:00 | 签到 Registration |
| 9:00-9:10 | 回顾与讨论 Reflection on Day#1 ● Dr. Jeffrey Buckley & Dr. Matt McLain |
| 9:10-9:30 | Keynote speech 主题宣讲 ● Jiangsu Phoenix Education Press 江苏凤凰教育出版社 |
| 9:30-9:55 | Topic: The latest development and case sharing of STEM education in the United States 主题: 美国 STEM 教育的最新发展与案例分享 ● Keynote speaker: Professor He Yong , Professor, Former Head of the Chinese Language Program at the United Nations 何勇教授, 联合国人力资源厅中文组原组长 |
| 09:55-10:20 | Topic: Simulating adaptive comparative judgement sessions to determine the effect of judge disagreement on reliability 主题: 基于模拟适应性比较判断会议探究评审者意见不一致对评判可靠性的影响 ● Keynote speaker: Dr. Jeffrey Buckley , Technological University of the Shannon 杰弗里·巴克利博士, 香农科技大学 |
| 10:20-10:45 | Topic: Practice of global wood education to promote pupils' awareness in technology and engineering education 主题: 促进中小学生技术与工程意识的全球木工教育实践 ● Keynote speaker: Professor Yang Ping , Professor, Expert in the International Skills Competition Expert Group, Kumamoto University 杨萍教授, 国际技能竞赛专家组专家、日本国立熊本大学 |
| 10:45-10:55 | 提问、回应与讨论 Questions, responses and discussion |
| 10:55-11:15 | 茶歇 BREAK&REFRESHMENTS |



| 主持人 Moderator 杨萍教授 Professor Yang Ping | |
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| 11:15-11:40 | <p>Topic:A qualitative study of technology education in Quebec textbooks: A focus on making</p> <p>主题：加拿大魁北克省技术教材的质性研究：关注制作</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor Brahim El Fadil, University of Quebec, Canada Brahim El Fadil 教授，加拿大魁北克大学 |
| 11:40-11:55 | <p>Topic:Sustainably integrating augmented reality in Singapore's primary science classrooms</p> <p>主题：增强现实技术在新加坡小学科学课堂中的可持续融合</p> <ul style="list-style-type: none"> ● Keynote speaker:Asst. Professor Wen Yun, Nanyang Technological University, Singapore 温韞教授，新加坡南洋理工大学 |
| 11:55-12:05 | 提问、回应与讨论 Questions, responses and discussion |
| 12:05-13:00 | <p>午餐 LUNCH</p> <p>南山专家楼留学生餐厅 Nanshan Expert Building Restaurant</p> |
| 13:00-13:45 | <p>教材展示 Textbooks Exhibition</p> <p>南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University</p> |



分论坛一 | Parallel Session 1

2024年10月23日 14:00-16:00 | October 23rd, 2024, 14:00-16:00

南京师范大学随园校区 100 号楼二楼报告厅

Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator

Dr. Manus McDyer

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| 14:00-14:20 | <p>Topic: Cultivating technological and engineering thinking: An exploration of "problem-embedded" practical teaching 培养技术与工程思维：“嵌入式问题” 实践教学的探索</p> <ul style="list-style-type: none">● Keynote speaker: Dr. Guan Guanghai, Zhejiang Provincial Department of Education 管光海博士，浙江省教育厅教研室 |
| 14:20-14:40 | <p>Topic: Development of an educational program using project-based learning in the 'medical device classification' unit of the ncs 'medical device regulatory affairs' subject 主题：在 NCS “医疗器械监管事务” 学科的“医疗器械分类” 单元中使用基于项目的学习开发教育计划</p> <ul style="list-style-type: none">● Keynote speaker: Woong-Ju Kim, Korea Vocational and Technical Education Standards Review Committee 金雄柱，韩国职业技术教育标准审查委员 |
| 14:40-15:00 | <p>Topic: Bot-Makers: A board game for teaching robot ethics 主题：机器人制造者：机器人伦理教学的棋盘游戏</p> <ul style="list-style-type: none">● Keynote speaker: Dr. Allan Fowler, University of Auckland 艾伦·福勒博士，新西兰奥克兰大学 |
| 15:00-15:20 | <p>Topic: A Delphi consensus checklist for assessing Arts design: A case for miniature robots in a STEAM contest 主题：评估艺术设计的德尔菲共识清单：STEAM竞赛中的微型机器人案例</p> <ul style="list-style-type: none">● Keynote speaker: Dr. Yang Qiuyue, Hubei University of Technology 杨秋月博士，湖北工业大学 |
| 15:20-15:30 | 提问、回应与讨论 Questions, responses and discussion |
| 15:30-15:50 | 茶歇 BREAK&REFRESHMENTS |



圆桌论坛一 | Workshop 1

主题：K-12 技术与工程教育教材设计与编写国际论坛

Topic: International Forum on the Design and Development of K-12 Technical and Engineering Education Textbooks

2024 年 10 月 23 日 14:00–16:00 | October 23rd, 2024, 14:00–16:00

南京师范大学随园校区田家炳北楼 307

307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University

主持人 | Moderator

陶莹副教授 | Assoc. Professor Tao Ying

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| 14:00–14:20 | <p>An introduction to the design and development of textbooks for K-12 technology and engineering education in China 我国K-12技术与工程教育教材设计与开发简介</p> <ul style="list-style-type: none">● Keynote speaker: Professor Gu Jianjun, Nanjing Normal University, UNESCO Chair on Technology and Engineering Education for Children and Youth, Chairman of the Special Committee on Basic Education Technology Teaching of the Ministry of Education, Director of the National Key Research Base for the Construction of General Technology Textbooks for primary and secondary schools 顾建军教授，南京师范大学，联合国教科文组织儿童青少年技术与工程教育教席主持人，教育部基础教育技术教学专委会主任委员，国家中小学通用技术教材建设重点研究基地主任 |
| 14:20–14:35 | <p>Transition development and current situation of publishing textbooks for K-12 technical and engineering education in China 我国K-12技术与工程教育教材出版转型发展现状思考</p> <ul style="list-style-type: none">● Keynote speaker : Jiangsu Phoenix Education Press 江苏凤凰教育出版社 |
| 14:35–14:50 | <ul style="list-style-type: none">● Keynote speaker: Professor Wang Zhijun, School of Electronic Information, Peking University, School of Information Science and Technology, Director of the Basic Experimental Center of Electronic Information Science (on line) 王志军教授，北京大学，信息科学技术学院基础实验教学所研究所所长，电子信息科学基础实验中心主任（线上） |
| 14:50–15:05 | <ul style="list-style-type: none">● Keynote speaker : Professor John P. Williams, Curtin University, Technology and Engineering Teacher Educator of the Year, 2023; Distinguished Technology Educator, 2021; Outstanding Research Award, 2017. 约翰·威廉姆斯教授，澳大利亚科廷大学，荣获 2023 年度最佳技术与工程教师教育工作者、2021 年杰出技术教育家、2017 年杰出研究奖等技术与工程教育、研究、服务等杰出成就。 |



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| 15:05-15:20 | <ul style="list-style-type: none"> ● Keynote speaker :Professor Jinok Kim, Gwangju National University of Education, South Korea 朴光烈教授, 韩国光州教育大学 |
| 14:40-16:00 | <p style="text-align: center;">圆桌对话与研讨 Round Table Dialogue and Discussion</p> <ul style="list-style-type: none"> ● John Williams, Professor, Curtin University, Australia 教授 澳大利亚科廷大学 ● Allan Fowler, Senior Lecturer, University of Auckland, New Zealand 高级讲师, 新西兰奥克兰大学 ● Dr. Jeffrey Buckley, Senior Lecturer, Technological University of the Shannon, Ireland 高级讲师, 爱尔兰香农科技大学 ● Dr. Matt McLain, Senior Lecturer, Liverpool John Moores University, UK 高级讲师, 英国利物浦约翰摩尔斯大学 ● Brahim ElFadil, Professor, University of Quebec, Canada Brahim ElFadil 教授, 加拿大魁北克大学 ● Jinok Kim, Professor, Gwangju National University of Education, South Korea 朴光烈教授, 韩国光州教育大学 ● YangPing, Professor, Kumamoto University, Japan 杨萍教授, 日本熊本大学 ● WenYun, Asst. Professor, Nanyang Technological University, Singapore 助理教授, 新加坡南洋理工大学 ● Leong LoongKong, Professor, Vice President of Southern University, Malaysia 梁龙光教授, 马来西亚南方大学副校长 ● Asst. Prof. Dr. Tieng Kimseng, Royal University of Phnom Penh, Cambodia 副教授, 柬埔寨金边皇家大学 ● Guan Guanghai, deputy director, Department of Education, Zhejiang Province, China 副主任, 浙江省教育厅教研室 ● He Shanliang, Professor, Nanjing Normal University, China 何善亮教授, 南京师范大学 |



分论坛二 | Parallel Session 2

2024年10月23日 16:00–18:00 | October 23rd, 2024, 16:00–18:00

南京师范大学随园校区 100 号楼二楼报告厅

Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator

Professor Brahim El Fadil

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| 16:00–16:20 | <p>Topic: Exploring the educational potential of Generative AI in 3D design within technology education</p> <p>主题: 技术教育视域下生成式人工智能在 3D 设计中的教育潜力的探索</p> <p>● Keynote speaker: Professor Gwangryeol Park, Gwangju National University of Education 金镇玉教授, 光州国立教育大学</p> |
| 16:20–16:40 | <p>Topic: Utilize the ABC theory of attitude to shape the engineering attitudes of primary and secondary school students</p> <p>主题: 运用态度ABC理论塑造中小学生的工程态度</p> <p>● Keynote speaker: Dr. Zhang Xinru, Nanjing Normal University 张心如博士, 南京师范大学</p> |
| 16:40–17:00 | <p>Topic: The introduction of technology in Burkina Faso' Education</p> <p>主题: 在布基纳法索教育中引入技术</p> <p>● Keynote speaker: Dr. Zore Maliki, Nanjing Normal University Zore Maliki 博士, 南京师范大学</p> |
| 17:00–17:20 | <p>Topic: Exploring the Impact of generative artificial intelligence on students' thinking skills: A meta-analysis</p> <p>主题: 探索生成式人工智能对学生思维技能影响的元分析</p> <p>● Keynote speaker: Yuanbin Diao, Nanjing Normal University 刁元斌, 南京师范大学</p> |
| 17:20–17:40 | <p>Topic: Using epistemic network analysis to explore primary school students' computational thinking in pair programming learning</p> <p>主题: 运用认知网络分析探讨小学学生在配对编程学习中的计算思维发展</p> <p>● Keynote speaker: Shuwen Wang, Nanjing Normal University 王淑文, 南京师范大学教育科学学院</p> |
| 17:40–17:50 | 提问、回应与讨论 Questions, responses and discussion |



圆桌论坛二 | Workshop 2

主题：如何看待技术与工程教育的联系与区别

Topic: How to View the Connection and Difference Between Technical Education and Engineering Education

2024年10月23日 16:00–18:00 | October 23rd, 2024, 16:00–18:00

南京师范大学随园校区田家炳北楼 307

307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University

主持人 | Moderator

陶莹 | Tao Ying

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| 16:00–16:10 | <p>介绍参加圆桌论坛的国内外专家和学者</p> <p>Introduction of domestic and international experts and scholars participating in the round table forum</p> <ul style="list-style-type: none">● Tao Ying, 陶莹, 南京师范大学 |
| 16:10–16:20 | <p>从技术实践角度区分技术教育与工程教育</p> <p>Distinguishing between technology education and engineering education from the perspective of the practice of technology</p> <ul style="list-style-type: none">● Keynote speaker: Professor Gu Jianjun, Nanjing Normal University, UNESCO Chair on Technology and Engineering Education for Children and Youth, Chairman of the Special Committee on Basic Education Technology Teaching of the Ministry of Education, Director of the National Key Research Base for the Construction of General Technology Textbooks for primary and secondary schools● 顾建军教授, 南京师范大学, 联合国教科文组织儿童青少年技术与工程教育教席主持人, 教育部基础教育技术教学专委会主任委员, 国家中小学通用技术教材建设重点研究基地主任 |
| 16:20–16:30 | <p>从技术哲学角度区分技术教育与工程教育</p> <p>Distinguishing between technology education and engineering education from the perspective of the philosophy of technology</p> <ul style="list-style-type: none">● Professor Marc de Vries, Delft University of Technology, Netherlands, Editor-in-chief of International Journal for Design and Technology Education, Editor-in-chief of the International Technology Education Studies book series Co-founder Association of Technology Teachers, Chairman of the PATT-Foundation● 马克·弗里斯博士, 教授, 荷兰代尔夫特理工大学, 国际设计与技术教育杂志主编、国际技术教育研究丛书的主编、技术教师协会的联合创始人、PATT 创始人及主席 |
| 17:00–18:00 | <p>圆桌对话与研讨</p> <p>Round Table Dialogue and Discussion</p> |



- He Yong , Professor, Former Head of the Chinese Language Program at the United Nations
何勇教授，联合国人力资源厅中文组的原组长
- Ruth Lemon, Research Assistant, University of Auckland, New Zealand
露丝·莱蒙博士，新西兰奥克兰大学教育与社会工作学院研究助理
- Tomás Hyland, Research Assistant, Athlone Institute of Technology, Ireland
托马斯·海兰德博士，爱尔兰阿斯隆理工大学的研究助理
- Manus McDyer, Ph.D., University of Limerick, Ireland
马努斯·迈克戴尔博士，爱尔兰利默里克大学教育学院博士
- Liam Maquet, University of Limerick, Ireland
利亚姆·马奎特博士，香农科技大学技术教育教师



会议晚宴及夜游体验

Conference Gala Dinner and Night Tour Experience

Conference Gala Dinner:Qinhuai Renjia

Night Tour Experience:Traditional Instrument Performance & Night Tour of Egret Island

Time:19:00-21:00

“Mist covers the cold water, the moonlight wraps the sand; at night, boats moor near taverns on the Qinhuai River”. Qinhuai Renjia is located at the center of the Qinhuai Scenic Belt in Nanjing's Confucius Temple area, offering prime views and traditional charm. With its classic architecture featuring green tiles, horse-head walls, and lattice windows, it exudes a timeless elegance. Reconstructed in 1990, it has been an essential landmark for over 30 years, specializing in Huaiyang and traditional Jinling cuisine. Situated by the river, it captures the enchanting Qinhuai scenery with reflections of boat lights and gentle ripples.

After dinner, take a boat trip to the Qinhuai River and immerse yourself in the "Qinhuai River in Sound of oar and Shadow of lantern ", as written by Zhu Ziqing. On the cruise ship, listen to the pipa and feel the unique charm of traditional Chinese Musical Instruments.

会议晚宴：秦淮人家

夜游体验：传统乐器演奏、夜游白鹭洲岛

时间：19:00-21:00

“烟笼寒水月笼沙，夜泊秦淮近酒家。”秦淮人家位于南京市中心夫子庙秦淮风光带中心，坐拥夫子庙最佳黄金景点地段，坐北朝南，呈现一派“青砖小瓦马头墙，回廊挂落花格窗”的格调，古朴典雅，溢彩流光。秦淮人家于1990年复建，三十余年以来一直是夫子庙一张不可缺少的地方名片，主营淮扬菜，及金陵传统菜。秦淮人家，迎河而建，桨声灯影烟波袅袅，独揽秦淮醉人风光。

餐后，将乘坐游船夜游秦淮河，身临其境体验朱自清笔下的“桨声灯影里的秦淮河”。在游船上，聆听琵琶演奏，感受独属于中国传统乐器的独特韵味。





第三天 | Day #3

2024年10月24日星期四 | Thursday 24th October 2024
南京师范大学随园校区 100 号楼二楼报告厅
Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator
陶莹副教授 | Assoc. Tao Ying

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| 8:00-9:00 | 签到 Registration |
| 9:00-9:20 | 回顾与讨论 Reflection on Day#2 ● Professor Marc de Vries & Dr. Tao Ying |
| 9:20-9:30 | PATT42 代表演讲 Representative of PATT42 Speech ● Professor Brahim El Fadil, University of Quebec, Canada Brahim El Fadil 教授, 加拿大魁北克大学 |
| 9:30-9:55 | Topic: Multiverse analyses as a tool to support analytical robustness in technology education research 主题: 多元宇宙分析: 增强技术教育研究分析严谨性的工具 ● Keynote speaker: Dr. Jeffrey Buckley, Technological University of the Shannon 杰弗里·巴克利博士, 香农科技大学 |
| 9:55-10:20 | Topic: Development and research status of k12 technology and engineering education in Malaysia 主题: 马来西亚 K12 技术与工程教育发展与研究现状 ● Keynote speaker: Professor Leong Loong Kong, Vice President of Southern University 梁龙光教授, 马来西亚南方大学副校长 |
| 10:20-10:45 | Topic: Adoption of generative artificial intelligence in K12 design and technology education 主题: 生成式人工智能在 K12 设计与技术教育中的应用 ● Keynote speaker: Dr. Matt McLain, Liverpool John Moores University 马特·麦克莱恩博士, 利物浦约翰摩尔斯大学 |



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| 10:45-10:55 | <p>Topic:Higher order thinking skills in STEM education:A curriculum perspective</p> <p>主题: STEM 教育中高阶思维能力的培养: 基于课程视角的探讨</p> <ul style="list-style-type: none"> ● Keynote speaker:Assistant Professor Sun Daner, Education University of Hong Kong 孙丹儿, 助理教授, 香港教育大学 |
| 10:55-11:15 | 茶歇 BREAK&REFRESHMENTS |
| <p>主持人 Moderator Dr. Matt McLain</p> | |
| 11:15-11:40 | <p>Topic:High school students as co-producers of technologies for sustainable development</p> <p>主题: 菲律宾技术与工程教育课程实施现状</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor Aurelio Vilbar, University of the Philippines Cebu Aurelio. Vilbar 教授, 菲律宾宿务大学 |
| 11:40-11:25 | <p>Topic:Providing STEM learning experiences to young children:Chinese kindergarten teachers' practices and reflections</p> <p>为幼儿提供STEM学习经验: 中国幼儿园教师的实践与思考</p> <ul style="list-style-type: none"> ● Keynote speaker:Assoc. Professor Tao Ying, Nanjing Normal University 陶莹, 副教授, 南京师范大学 |
| 11:25-11:50 | <p>Topic:Engineering thinking education and practice exploration</p> <p>工程思维教育及其实践探索</p> <ul style="list-style-type: none"> ● Keynote speaker:Professor Cui Jun, Nanjing Normal University 崔军, 教授, 南京师范大学 |
| 11:50-12:00 | 提问、回应与讨论 Questions, responses and discussion |
| 12:00-13:00 | <p>午餐 LUNCH</p> <p>南山专家楼留学生餐厅 Nanshan Expert Building Restaurant</p> |
| 13:00-13:45 | <p>教材展示 Textbooks Exhibition</p> <p>南京师范大学随园校区田家炳北楼 309 309 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University</p> |



分论坛一 | Parallel Session 1

2024年10月24日 14:00-17:00 | October 24th, 2024, 14:00-17:30

南京师范大学随园校区 100 号楼二楼报告厅

Lecture Hall, 2nd Floor, Building 100, Suiyuan Campus,
Nanjing Normal University

主持人 | Moderator

Dr. Jeffrey Buckley

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| 14:00-14:20 | <p>Topic:From “chosen ones” to “leftovers” :A historical analysis of China’ s vocational education and training system, 1949-2023</p> <p>主题：从“被选中的人”到“剩下的人”：1949-2023年中国职业教育培训体系的历史分析</p> <ul style="list-style-type: none">● Keynote speaker:Assoc. Professor Hao Tiancong, Nanjing Normal University 郝天聪，副教授，南京师范大学 |
| 14:20-14:40 | <p>Topic:Assessing pupils’ creative design ideas and prototypes using comparative judgment</p> <p>主题：使用比较判断法对小学生的创意设计理念与原型进行评估</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Caiwei Zhu, Delft University of Technology 博士，荷兰代尔夫特理工大学 |
| 14:40-15:00 | <p>Topic:Cultivation mode and practice of technology and engineering talents in ordinary high schools:A case study of futian high school</p> <p>主题：普通高中技术与工程人才培养模式与实践——以福田中学为例</p> <ul style="list-style-type: none">● Keynote speaker:Dr. Zhu Lin, Shenzhen Futian High School 朱琳博士，深圳市福田区福田中学 |
| 15:00-15:20 | <p>Topic:A Study on the Construction of a Three-Dimensional Model for the Cultivation of Technological and Engineering Thinking in Primary and Middle Schools</p> <p>主题：构建中小学技术与工程思维培养的三维模型研究</p> <ul style="list-style-type: none">● Keynote speaker:Liang Huiyan, Teaching and Research Personnel, Guangdong Provincial Education Research Institute 梁惠燕，教研员，广东省教育科学研究院 |
| 15:20-15:30 | 提问、回应与讨论 Questions, responses and discussion |
| 15:30-15:50 | 茶歇 BREAK&REFRESHMENTS |



主持人 | Moderator

Dr. Caiwei Zhu

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| 15:50-16:10 | <p>Topic:A study on learning strategies for the cultivation of children's engineering thinking</p> <p>主题：指向儿童工程思维培养的学习策略的研究</p> <ul style="list-style-type: none">● Keynote speaker:Jiang Ling, Science Teacher, Primary School affiliated to Nanjing Normal University 姜玲，南京师范大学附属小学科学教师 |
| 16:10-16:30 | <p>Topic:Cultivation mode of technical talents in the new energy vehicle application and maintenance in secondary vocational education: A comparative analysis of talent cultivation programs of six secondary vocational schools</p> <p>主题：中职新能源汽车运用与维修技术人才培养模式探究——基于6所中职学校人才培养方案的对比分析</p> <ul style="list-style-type: none">● Keynote speaker:Yang Ruya, Nanjing Normal University 杨儒雅，南京师范大学 |
| 16:30-16:50 | <p>Topic:From physics to technology education</p> <p>主题：从物理到技术教育</p> <ul style="list-style-type: none">● Keynote speaker:Yuxuan Wang, Nanjing Normal University 王宇轩，南京师范大学 |
| 16:50-17:00 | 提问、回应与讨论 Questions, responses and discussion |



分论坛二 | Parallel Session 2

2024年10月24日 14:00–17:00 | October 24th, 2024, 14:00–17:30

南京师范大学随园校区田家炳北楼 307

307 Room Tianjiabing North Building, Suiyuan Campus, Nanjing Normal University

主持人 | Moderator

Leong Loong Kong

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| 14:00–14:20 | <p>Topic:The causal relationship between spatial ability and performance in technological education:A methodological approach 主题：技术教育中空间能力与表现的因果关系研究：一种方法论方法</p> <ul style="list-style-type: none"> ● Keynote speaker:Dr. Tomás Hyland, Technological University of the Shannon 托马斯·海兰德博士，香农科技大学 |
| 14:20–14:40 | <p>Topic:Exploring the effects of different interventions of the problem-oriented teaching model on students' creativity in STEM education 主题：STEM教育中不同问题导向教学模式对STEM教育中学生创造力的影响</p> <ul style="list-style-type: none"> ● Keynote speaker:Geng Xingyu, Nanjing Normal University 耿星宇，南京师范大学 |
| 14:40–15:00 | <p>Topic:Promoting UAV autonomous aerial video to improve cross-cultural understanding, historical knowledge, and students' perception 主题：推广无人机自主航拍视频，提高跨文化理解、历史知识和学生观念</p> <ul style="list-style-type: none"> ● Keynote speaker:Wayan Sintawati, Nanjing Normal University 林淇，南京师范大学 |
| 15:00–15:20 | <p>Topic:The impact of gender stereotypes on self-efficacy, creative thinking attitude, and project-based learning value in technology and engineering education among Chinese junior high students 主题：中国初中生的性别刻板印象对其技术与工程教育自我效能感、创造性思维态度和项目式学习价值观的影响</p> <ul style="list-style-type: none"> ● Keynote speaker:Li Xiaofeng, Hubei University of Technology 李小凤，湖北工业大学 |
| 15:20–15:30 | <p>提问、回应与讨论 Questions, responses and discussion</p> |
| 15:30–15:50 | <p>茶歇 BREAK&REFRESHMENTS</p> |



| 主持人 Moderator Dr. Tomás Hyland | |
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| 15:50-16:10 | <p>Topic:The application of project-based learning in general technology courses from the perspective of knowledge integration 主题：知识整合视角下项目化学习在通用技术课程中的应用</p> <ul style="list-style-type: none"> ● Keynote speaker:Sun Yun, Nanjing Normal University 孙昀，南京师范大学 |
| 16:10-16:30 | <p>Topic:Analysis on the design ideas and characteristics of physics course materials of five-year consistent higher vocational and technical education from the perspective of cultivating high-level technical talents 主题：高水平技术人才培养视角下五年一贯制高等职业技术教育物理课程教材的设计思路与特色分析</p> <ul style="list-style-type: none"> ● Keynote speaker:Xia Zhangye, Nanjing Normal University 夏张晔，南京师范大学 |
| 16:30-16:50 | <p>Topic:Practical cases of pre-service training for K-12 technology teachers based on innovative design of Chinese chess 主题：基于中国象棋创新设计的 K-12 技术教师职前培训实践案例</p> <ul style="list-style-type: none"> ● Keynote speaker:Han Qicheng, Nanjing Normal University 韩其成，南京师范大学 |
| 16:50-17:00 | 提问、回应与讨论 Questions, responses and discussion |
| 闭幕仪式 CLOSING SESSION | |
| 主持人 Moderator 崔军教授 Professor Cui Jun | |
| 17:00-17:15 | <p>会议总结 Conference Summary Professor: Marc de Vries</p> |
| 17:15-17:30 | <p>闭幕致辞 Closing Remarks Professor: Gu Jianjun 顾建军教授</p> |



Free time 自由时间

OPTIONAL: Suggested Informal Social Activity

■ Optional 1: Walking Tour of Xuanwu Lake

Xuanwu Lake, located in the heart of Nanjing, is a harmonious blend of cultural heritage and natural beauty, forming part of the ancient Yangtze River and Qinhuai River waterway remnants within the Jinchuan River system. It is bordered by Purple Mountain to the east, the Ming City Wall to the west, Nanjing Railway Station to the north, and Fuzhou Mountain to the south. Since the pre-Qin period, Xuanwu Lake has been known by nearly 20 different names, including "Houhu," "Beihu," and "Kunming Pool." The name "Xuanwu Lake" dates back to 446 AD during the Song Dynasty of the Southern Dynasties. Historically a royal garden during the Six Dynasties, it served as the Ming Dynasty's national archives for storing imperial documents. Today, it is celebrated as the "Pearl of Nanjing," featuring five islets, one garden, and a scenic path, with bridges and causeways connecting the islets. Xuanwu Lake is acclaimed as the largest inner-city park in the Jiangnan region and the largest surviving royal garden lake in China.



■ 选择1:玄武湖游览

玄武湖位于南京主城区，人文古迹荟萃，山水城林相融，是长江古秦淮河道遗留下来的一部分，属于金川河水系。东枕紫金山、西靠明城墙、北邻南京站、南倚覆舟山。自先秦时期的“桑泊”开始，玄武湖有“后湖”“北湖”“太液池”“昆明池”等近20个名称。“玄武湖”之名则始于南朝宋文帝元嘉二十三年（446年）。在六朝时期为皇家园林湖泊，明代为保存黄册的国家档案馆，今被誉为“金陵明珠”。由“五洲”“一园”“一路”组成，五洲之间，桥堤相通，别具其胜。玄武湖有江南地区最大的城内公园、中国最大的皇家园林湖泊、仅存的江南皇家园林等美誉，更被誉为“金陵明珠”。



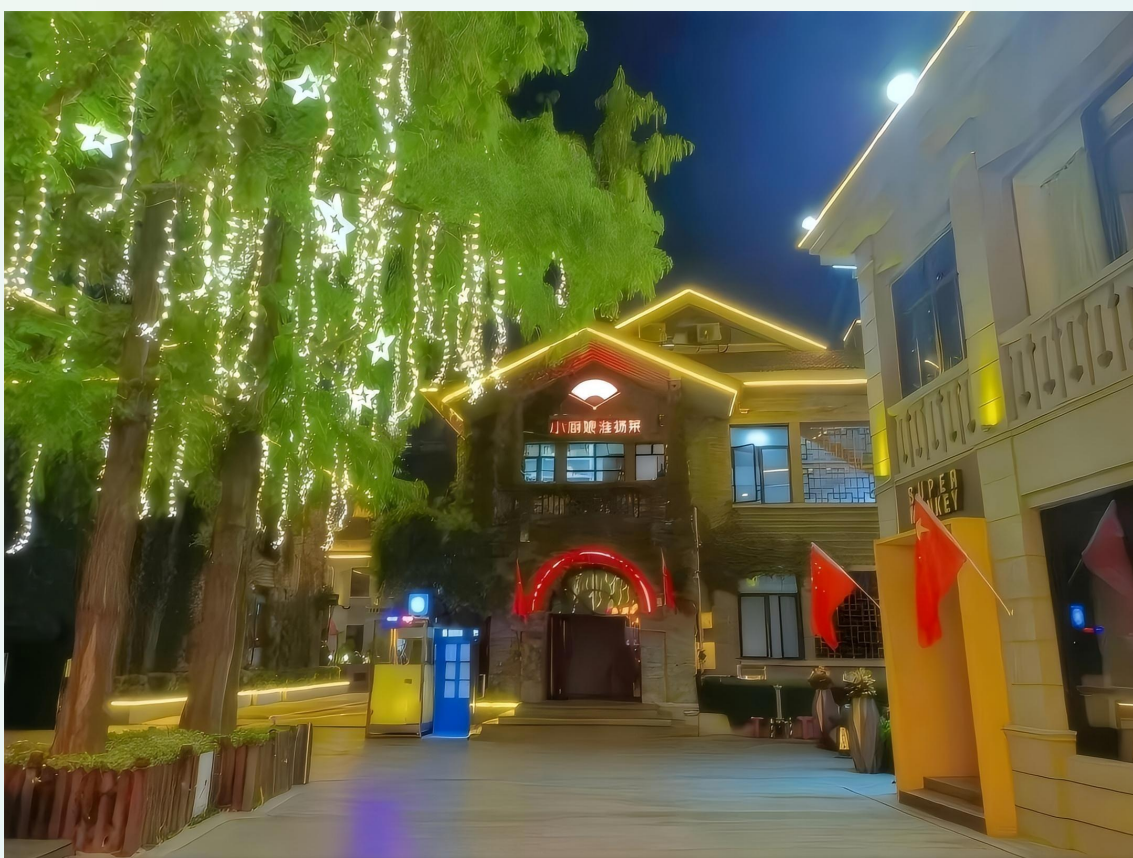
■ Optional 2: Changjiang Road 1912 District

Changjiang Road 1912 District is a renowned cultural street in Nanjing, known for its rich Republic-era heritage. This distinctive cultural area stretches east-west for 1,821 meters and is 43 meters wide, with six lanes. It begins at Zhongshan Road in the west and ends at Hanfu Yayuan in the east, running roughly parallel to Zhongshan East Road to the south and Zhujiang Road to the north. Along Changjiang Road, you'll find numerous historical buildings and cultural landmarks, such as the Presidential Palace, Mei Yuan New Village, Nanjing Library, and Nanjing Museum. Encircling the Presidential Palace, the area consists of 19 Republic-style buildings and four central squares—Republic, Philanthropy, New Century, and Pacific Square—forming a trendy commercial and leisure district.



■ 选择2: 长江路1912街区

长江路 1912 街区，是南京著名的民国文化一条街，也是古都南京的一条文化特色街区。长江路东西走向，长 1821 米，宽 43 米，设六车道。西起中山路，东至汉府雅苑，与南面的中山东路和北面的珠江路大体平行。在长江路的两侧，有许多重要的历史建筑和文化景点，如总统府、梅园新村、南京图书馆、南京博物馆等。环绕南京总统府，由 19 幢民国风格建筑及共和、博爱、新世纪、太平洋 4 个街心广场组成，是一个时尚商业休闲街区。



第四天 | Day #4

2024年10月25日星期五 | Friday 25th October 2024

江宁织造博物馆 | Jiangning Imperial Silk Manufacturing Museum

金陵中学 | Jinling Middle School

Site Visit: Jin Ling High School

Time: 9:00–10:30

Nanjing Jin ling High School was founded in 1888. It is the first batch of national demonstration high schools, the first batch of high-quality demonstration high schools in Jiangsu Province, the first batch of four-star high schools in Jiangsu Province, the first batch of pilot schools for innovative top-notch talent training in ordinary high schools in Jiangsu Province, and Jiangsu Province model schools. It is the National Top Ten School of Science and Technology Innovation Education, Soong Ching Ling Children's Science and Technology Invention Demonstration Base, China Youth Robot Competition Excellent School, and the base school of the World's Top Scientists Alliance. In the course of more than 130 years, Jin ling High School has cultivated more than 60,000 graduates, including 1 Nobel Prize winner in literature, 31 Chinese and foreign academicians, and 6 international Olympic medal winners in five major disciplines. Over the years, the school has adhered to the motto of "Integrity, Truthfulness, Diligence, and Benevolence" and developed distinctive characteristics, combining humanism with scientific spirit, rigorous academic pursuit with pioneering and innovation, respect for teachers and students alike, as well as a balance between comprehensive development and individual growth.

南京市金陵中学创建于1888年。现为首批国家级示范高中、江苏省首批高品质示范高中、江苏省首批四星级高中、江苏省首批普通高中创新拔尖人才培养试点学校、江苏省模范学校等；系全国科技创新教育十佳学校、宋庆龄少年儿童科技发明示范基地、中国青少年机器人竞赛优秀学校、世界顶尖科学家联盟基地学校。在130多年的办学历程中，学校培养了6万多名毕业生，其中有诺贝尔文学奖获得者1人、中外院士31人、五大学科国际奥赛奖牌获得者6人。多年来，学校恪守“诚、真、勤、仁”校训，形成了鲜明的办学特色——人文主义与科学精神相结合，严谨治学与开拓创新相结合，推崇教师与尊重学生相结合，全面发展与个性成长相结合。





Jiangning Imperial Silk Manufacturing Museum

Time:11:00-12:00

Jiangning Imperial Silk Manufacturing Museum is a modern museum built on the site of Imperial Silk Manufacturing in the Qing Dynasty. It was designed by the famous architect and academician Wu Liangyong, covering an area of 18,700 square meters. Jiangning Imperial Silk Manufacturing Museum has permanent Jiangning Silk Manufacturing Exhibition Hall, Yunjin Tianyi Exhibition Hall, Red Mansion Dream Song Exhibition Hall, Chinese cheongsam Exhibition hall, and also has Red Mansion cinema, fashion release center, Red Mansion Theater, Caofu Theater and other exhibition and service facilities, integrating cultural learning, entertainment and leisure. It is a modern museum displaying the history and culture of Jiangning Silk Manufacturing, Nanjing Yunjin and "A Dream of Red Mansion".

江宁织造博物馆是在清代江宁织造遗址上建造的一座现代博物馆，由著名建筑学家、两院院士吴良镛先生担纲设计，占地面积 1.87 万平方米。江宁织造博物馆常设江宁织造展厅、云锦天衣展厅、红楼梦曲展厅、中国旗袍展厅，还设有红楼影院、时尚发布中心、红楼剧场、曹府戏苑等展演和服务设施，融文化学习、娱乐休闲于一体，是展示江宁织造、南京云锦及《红楼梦》历史和文化的新型博物馆。



Break & Lunch

Time:12:00-13:00

Place:Nanshan Expert Building Restaurant 南山专家楼留学生餐厅

