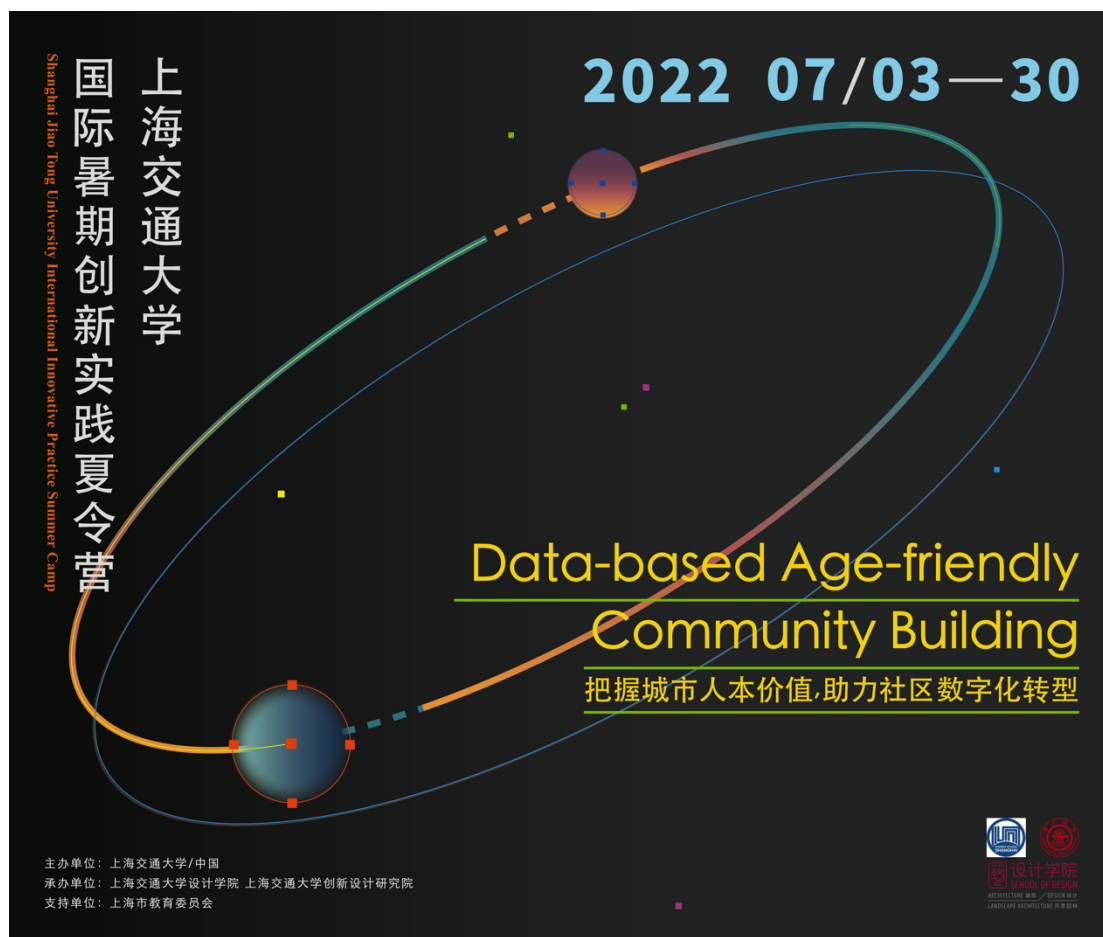


**招募 | 2022 年上海暑期学校 (SSS) “基于数据的老年友好型社区营造”**

**Data-based Age-friendly Community Building**



**2022 年上海暑期学校 ( SHANGHAI SUMMER SCHOOL )**

**主办：**上海交通大学

**承办：**上海交通大学设计学院 上海交通大学创新设计研究院

**支持单位：**上海市教育委员会

**语言：**中英双语

**费用：**免费

**2022 SHANGHAI SUMMER SCHOOL**

**Organizer:**

Shanghai Jiao Tong University

**Facilitator:**

Shanghai Jiao Tong University- School of Design, Shanghai Jiao Tong University-  
Institute of Innovative Design

**Support unit:**

Shanghai Municipal Education Commission

**Language:**

Chinese and English

**Tuition fee:**

Free

**暑期学校简介：**

上海暑期学校（SSS）由上海市教育委员会发起，上海交通大学自 2006 年开始举办创新实践夏令营，是上海交通大学第一个 Shanghai Summer School 项目，至今已举办十四届。在 2009 年被评为丹麦最佳国际夏令营，2012-2013 两届更受到两国大使及丹麦教育大臣的高度关注。创新实践夏令营为参与学生提供一次多专业交叉、中西文化交流、产学紧密结合的自主创新与实践机会。参与学生将在多学科中外专家指导下，形成真实问题的创新解决方案。

**Profile:**

The Innovation Practice Summer Camp, which is the first Shanghai Summer School program of Shanghai Jiao Tong University, has been held fourteen sessions since 2006. It was awarded the best international summer camp in Denmark in 2019. And it attracted the attention of the ambassadors of China and Denmark as well as the Danish Minister of Education in 2012 and 2013. The Innovative Practice Summer Camp offers chances for practicing innovative design thinking and practical skills. Students will be able to collaborate with partners from other disciplines and countries, as well as industry professionals. Under the guidance of Chinese and foreign experts in

various disciplines, students will develop innovative solutions for real-life problems.

### **课题简介：**

“大健康”趋势和数字化管理背景下，社区成为达成全人群全生命周期干预的主要作用层级。《15 分钟社区生活圈规划导则》中对医疗健康有所考量，但仍需探索如何能够发现并链接区域内体医康养资源，通过公共组织、地方政府、高校、企业、NGO、市民及市民组织等多方主体的共创，构建数字底座，探索基于数据的老年友好型社区营造的产品-服务体系设计，进一步将“体医养康护融合”的健康体系融入 15 分钟生活圈规划布局中。

本届创新实践项目以上海交通大学丰富的国际化办学经验为保障，以设计学院丰富的产品设计教学经验以及国际工业工程硕士（International Industrial Design Engineering, 以下简称 IIDE）多元专业知识背景的 Teaching Fellow 教授团队为基础，以来自设计、电子信息、软件工程、机械工程、心理学、护理学、医学等不同专业的优秀学生为主体，在 1 个月的时间内，以线上工作坊(workshop)模式进行工作。以实地调研、问题定义、思维发散、概念提炼到方案优化、模型展现等迭代的设计思维过程，通过小组协作形成社会问题的解决方案。

### **Project description:**

In the context of "big health" and digital health management, community has become an important level of intervention in the whole-population life-cycle healthcare. The Guidance of Planning 15-minute Community Living Circles pointed out the importance of health care, but other relevant information needs to be further specified, including: how to discover and connect physical health care resources in the region; how to build digital management solutions through the co-creation of multiple actors (public organizations, local governments, universities, enterprises, ngos, citizens and civic organizations, etc.); how to build data-based age-friendly community service design; how to further integrate the health system of "the integration of sports, medical treatments, elderly care, care, and rehabilitation (SMECR)" into the planning of the 15-minute community living circles?

This Innovative Practice Summer Camp is organized by Shanghai Jiao Tong University (School of Design). The School of Design owns a group of educational professionals with diversified knowledge backgrounds. An International Industrial Design Engineering program (IIIDE) held by Shanghai Jiao Tong University has been supported by this group of teaching fellow from industry as well. We will invite outstanding students from different majors such as design, electronic information, software engineering, mechanical engineering, psychology, nursing, medicine and etc to co-create in this summer camp. Students and teaching fellows will work online for one months and develop a design solution for a real-life problem. The design process generally includes user research, problem statement, ideation, concept refinement, scheme optimization, and prototyping.

### **进度安排：**

**第一周：**项目启动，开营，分组、破冰活动，讲座

**第二周：**案例调研，概念提炼，方案发想

**第三周：**头脑风暴，方案讨论优化，模型制作

**结营：**专业指导，方案迭代，创新作品展示

### **Activities：**

Week 1: Program launching and camp opening, group forming, Ice-breaking activities, Lectures.

Week 2: Field research, forming concepts, ideation.

Week 3: Brainstorming, Refining concepts, Model making.

Final presentation: Professional guidance, Exhibition of the design outcomes, Closing ceremony.

### **申请人条件：**

拟招收线上留学生 30 名，工业设计、电子信息、软件工程、医学、机械工程、工程心理学等学科背景优先。

### **Eligibility：**



We plan to recruit 30 online foreign students. Students in industrial design, electronic information, software engineering, medicine, mechanical engineering, engineering psychology and other disciplines are preferred.

### **报名通道：**

请于 2022 年 7 月 2 日前通过 <https://www.wjx.top/vj/tHc7yFy.aspx> 提交相关信息

**Application (Procedure, deadline) :**

Submit before July 2<sup>nd</sup>, 2022 through <https://www.wjx.top/vj/tHc7yFy.aspx>

### **联系方式 Contacts：**

高老师 Gao Yanhua, [g.ryan@sjtu.edu.cn](mailto:g.ryan@sjtu.edu.cn), 021-54741917\*807

## **课题简介**

### **Project description**

#### **1、面向阿兹海默症老年群体的产品-服务设计**

**指导：王红江 管轶群**

**简介：**中国 1000 多万的阿兹海默症老人是一个需要特殊关怀的弱势群体，无论是居家还是机构养老，都需要做针对性的跨学科研究，为患者和其家庭提供更好的产品、环境和服务设计，本课题拟从设计伦理、人文医学、叙事设计、数字技术等多维度入手，进行极富现实意义的探索和研究。

参考资料：

【1】Zeisel J, Bennett K, Fleming R. World Alzheimer Report 2020: Design, dignity, dementia: Dementia-related design and the built environment[J]. 2020.

【2】吴孟珊. 以日本「认知症高龄者环境设施评估尺度」运用在台湾失智症单元照顾环境评估尺度之初探[D]. 成功大学, 2012;

【3】周燕珉, 李佳婧. 失智老人护理机构疗愈性空间环境设计研究[J]. 建筑学报, 2018(02):67-73.

【4】[美]约翰·泽塞尔(著)邱建伟等(译)《我依然在这里》，清华大学出版社, 2021;

**Project 1: Service design for the elderly with Alzheimer's disease**

**Tutor: Hongjiang Wang Yiqun Guan**

**Description:** China has more than 10 million elderly people with Alzheimer's disease. The elderly with Alzheimer's disease is a vulnerable group that needs special care. To provide better product, environment and service design for patients and their families, researchers need to conduct targeted interdisciplinary studies on elderly Alzheimer's patients whereas at home or in institutional. This project intends to explore and study the needs of the elderly Alzheimer's patients from the perspectives of design ethics, humanistic medicine, narrative design and digital technology.

## **2、老年人摔倒及其风险因素的识别和预防**

**指导：谈欣洋**

**简介：**65 岁以上老人摔倒概率为 28%-35%，对于 75 岁以上老人来说，这个概率上升至 40%。摔倒造成的损伤及其后续并发症是老年人死亡的重要原因。如何在社区环境下，识别可能造成老年人摔倒的风险因素并预防摔倒，以及如何识别老年人摔倒并及时采取救助措施，是急需解决的设计和科学问题。

**Project 2: Identification and prevention of falls and their risk factors in the elderly**

**Tutor: Xinyang Tan**

**Description:** Elderly aged over 65 have a fall rate of 28% to 35%, this number rising to 40% for elderly over 75. Injuries caused by falls and their subsequent complications are important causes of death in the elderly. How to identify the risk factors that may cause falls in the elderly and prevent falls in the community environment, as well as how to identify falls in the elderly and take emergent rescue are urgent design and scientific problems to be solved.

参考资料：

Reference:

【1】Tinetti, M. E., Speechley, M., & Ginter, S. F. (1988). Risk factors for falls among elderly persons living in the community. *New England journal of medicine*, 319(26), 1701-1707.

【2】Yu, M., Rhuma, A., Naqvi, S. M., Wang, L., & Chambers, J. (2012). A posture recognition-based fall detection system for monitoring an elderly person in a smart home environment. *IEEE transactions on information technology in biomedicine*, 16(6), 1274-1286.

【3】Tinetti, M. E., Williams, T. F., & Mayewski, R. (1986). Fall risk index for elderly patients based on number of chronic disabilities. *The American journal of medicine*, 80(3), 429-434.

## **3、老红书：面向老龄群体用户的多模态内容分发与反馈机制**

**指导：刘逸青**

**简介：**我们生活在一个多种模态相互交融的环境中，听到的声音、看到的物体、闻到的气味都是一种模态。在人工智能领域，存在着一种“多模态学习”的技术，希望利用文本、图像、语音和视频等多种模态的学习，让机器像人类一样利用视觉、嗅觉、味觉、听觉等多感官理解现实世界。但人工智能从来不仅是技术领域的事，多模态学习也不仅是一种技术范式，更面临着众多人文挑战。

本课题旨在解决老年群体面临的数字生活信息茧房问题，面向老龄群体用户的内容分发，探索如何站在老龄化内容种草社区发展的角度，定义多模态学习的各项信息维度和参数，填补多种模态数据之间的语义鸿沟，实现有效的反馈和学习机制，达成真正可掌控的“智能”，这需要我们跨越内容，回到生活中去探索和领悟。

**Project 3: Multimodal content distribution and feedback mechanisms for elderly users**

**Tutor: Yiqing Liu**

**Description:** We live in an environment where modes blend together. The sounds you hear, the objects you see, and the smells you smell are all modes. In the field of artificial intelligence, there is a "multimodal learning" technology. It uses multiple modes of learning such as text, image, voice and video to let machines to understand the real world with multiple senses such as sight, smell, taste and hearing, like humans. But artificial intelligence faces challenges not only in the field of technology, but also in the field of humanity.

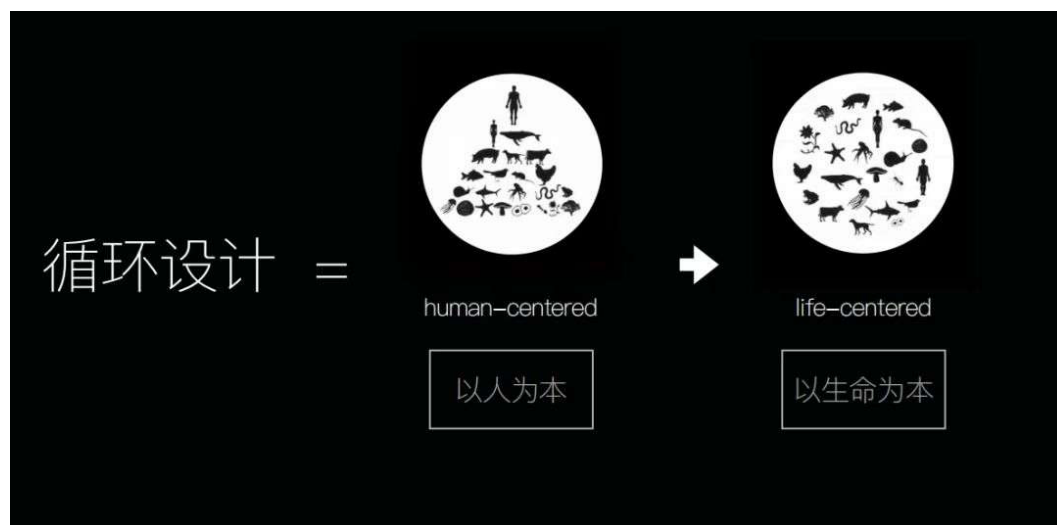
This topic aims to solve the digital information problems faced by the elderly group. From the perspective of content recommendation in the community of the elderly, the information dimensions and parameters of multimodal learning are defined to fill the semantic gap between multiple modal data, so as to realize effective feedback and learning mechanism.

#### **4、疫情下的社区服务系统设计**

**指导：秦玉龙**

**简介：**2019 年末的世纪疫情，尤其 2022 的上海全民隔离，让所有人不得不面临灵魂一问：社会和人的关系是什么？设计可以扮演什么样的角色？

基于用户研究和数据，产出工业材料创新、科技交互装置、机器人协同设计、参数设计、系统设计的打破专业界限的整合创新设计。参与带有人文情怀的设计，用设计撬动系统服务，突破传统设计专业的局限，在“循环设计”的宏观趋势之下，设计从“以人为本”上升为“以生命为本”的更广泛的系统层面，进行创新设计，理解人类的生态位——从万物生灵的顶端，变为整个生态系统中的一员。



#### **Project 4: Community service system design in the context of epidemic**

**Tutor: Qin Yulong**

##### **Description:**

The three-year-long epidemic has forced everyone to face many social questions, such as: What is the relationship between society and human beings? What role can design play in this?

Based on user research and data, the project intends to produce innovative designs for industrial material innovation, scientific and technological interaction devices, robot co-design, parameter design and system design that break professional boundaries. At the same time, we will access the service system with humanistic consideration. With design have been developed from "people-oriented" to "life-oriented", the project will focus on the broader system level and carry out innovative design.

#### **5、基于声音的老年人产品-服务体系触点设计**

**指导：吴湛微 刘乃欣 Naixin Liu**

**简介：**随着年龄的增长，人们的身体机能都会有不同程度退化。我们是否可以通过对老人周围环境中声音的改善来建设老年友好型社区？老年人在日常生活中会接触到哪些声音？这些声音在什么场景下产生的？对老人会产生什么作用和效果？本课题除了常规的视觉通道，尝试从听觉通道来切入老人辅助设计。设计成果参考：

Design achievement reference

基于声音的儿童可穿戴产品设计：

为盲人和视障儿童设计的声音玩具：

<https://dl.acm.org/doi/abs/10.1145/1017833.1017842>

音乐疗法和工业设计的跨学科合作：

<https://academic.oup.com/mtp/article/30/2/101/1138733?login=true>

声音与行为的研究，声音对儿童和家长购物行为影响研究：

<https://www.emerald.com/insight/content/doi/10.1108/MIP-03-2014-0060/full/html>

### **Project 5: Sound based design for the elderly**

**Tutor: Zhanwei Wu Naixin Liu**

**Description:** As people grow older, their bodily functions deteriorate to varying degrees.

In this case, can we build age-friendly communities by designing sounds in the elderly's surroundings? What sounds can older people receive in their daily lives? What

circumstances are these sounds produced? What effect can be produce to the old person?

This topic tries to use sounds as the entry point of age-friendly design.

## **6、Living lab (生活实验室): 适老家居 AIoT 场景下的数智化用户共创工具开发**

**指导：李 斌 宋东瑾**

**简介：**Living Lab（生活实验室）是真实情境下多利益相关者共创的开放创新模式。本课题面向适老化 AIoT 家居系统，探索支持 Living Lab 创新活动的数智化工具，服务于未来全屋智能的适老新产品开发。本课题将基于调研和产品定位，产出原型并进行可用性测试，分析项目成果 PMF 的商业价值以及可持续优化的运营策略，形成可复用 SOP。

### **Living Lab : Co-creation tools for aging friendly AIot R&D**

**Tutor: LI Bin Dongjin Song**

**Description:** Living Lab is multi-stakeholder cocreation open innovation model in real world context. This topic is aimed at exploring digital and intelligent cocreation tools to

support Living Lab's innovation activities, and serves the development of new products suitable for the aging friendly AIoT living systems in the future. Based on research and product positioning, this topic will produce prototypes and usability tests, analyze the commercial value of PMF and sustainable optimized operation strategies, and form reusable SOPs.

## 7、基于计算机视觉的生理退化老年群体的产品-服务设计

**指导：刘 钊 夏 天 周介立**

**简介：**人工智能背景下，机器视觉将“看”的能力赋予计算机。对于在老年人/生理退化人群，在他们生活起居、休闲娱乐、康养锻炼的生活场景中，计算机视觉可以为我们提供哪些便利？我们如何使用数字驱动的手段赋能设计，优化此类人群的体验？本课题将基于 Mediapipe、OpenCV 等人体姿态估计特征提取的开源平台，探索基于计算机视觉的生理退化老年群体的产品-服务设计。

参考资料 References:

<https://kaiahealth.com/>

基于摄像头传感的护理应用 camera sensing-based care application

<https://getactivearcade.cn/>

活力街：身体感应的超好玩的运动体验

Active Arcrade: Interesting sports experience through body sensing

技术方案 Technical solutions:

<https://google.github.io/mediapipe/> (mediapipe)

<https://opencv.org/> (opencv)

**Project 7: Product and service design for the elderly or people with physical degradation based on computer vision**

**Tutor: Liu Zhao Xia Tian Jieli Zhou**

**Description:**In the context of AI, machine vision gives computers the ability to "see". But What can they do for people? What conveniences can it provides to people that are old or physiologically degenerate in their living, leisure and recreation, wellness and exercise? And how can we use digital driven means to empower design and optimize the experience of such people? So, here's the answer. We will explore the product and service design of physiologically degraded elderly groups based on computer vision through the

open-source platforms for human posture estimation feature extraction such as Mediapipe and OpenCV.

## 8、面向老年群体社交需求的文娱产品-服务设计

**指导：张克俊 吴桐 赵嘉楠**

**简介：**在信息化、互联网时代，新技术和新媒介的广泛普及运用为新老年一代突破传统社会交往范围、扩展交往对象创造了条件，越来越多的以低龄老人为主体的新老年群体通过虚拟或现实的多种途径建立起家人、同事、同学之外的第四社交圈。

——中国人民大学人口与发展研究中心、老年学研究所教授孙鹃娟  
第四社交圈也会带来基于社交文娱需求衍生的消费品需求链条。因为经常参加社交生活，所以需要漂亮的服装，也因为这种生活状态，还需要化妆，甚至对身形体态有要求的人会去学习走模特步，使自己有更好的形态。

——新老年群体的 AgeClub 新老年商业研究院

新老年群体（60 后）的第四社交圈通常由朋友、邻居甚至陌生人基于共同的兴趣爱好或生活方式而形成，有助于新老年群体保持身心健康与活力、缓解独居/社会隔离孤独、减轻社会照护压力。在健身、学习、休闲、互助养老等社区场景下的社交活动中，我们如何帮助新老年群体增强圈层认同和连结？多元化社交也催生了外在形象改变的需求，我们如何满足新老年群体对美的追求，增强他们社交中的自我表达？本课题鼓励结合人工智能、AR、VR 等技术制作原型，畅想元宇宙数字养老新生活。

参考资料：

<https://developer.apple.com/augmented-reality/>（ARkit/ARkit+unity）

<https://ar.baidu.com/#/figure>（百度 AR 虚拟形象）

<https://36kr.com/p/1610592025055361>（metalive-元宇宙音视频产品）

<https://dl.acm.org/doi/10.1145/3424953.3426549>（可穿戴设备-交互美甲）

<https://dl.acm.org/doi/abs/10.1145/3519391.3519406>（可穿戴设备-电子皮肤）

**Project 8: Entertainment product that meet the social needs of the elderly  
(service design)**

**Tutor: Kejun Zhang Wu Tong Jianan Zhao**

**Description:** The fourth social circle of the new elderly usually consists of friends, neighbors and even strangers who form various social circles based on common interests or lifestyles. This social circle plays an important role in maintaining physical and mental health, preventing the social isolation and marginalization of the elderly and relieving the social pension pressure. Fitness, learning, leisure, mutual pensions are all manifestations

of such social activities. How can we help the new elderly to strengthen the cultural identity and connection? Diversified social interaction also gives rise to the need to change the external image. How can we satisfy the new elderly group's pursuit of beauty and enhance their self-expression in social interaction? Imagine the new life of digital pension in the meta-universe and prototype with AI, AR, VR technology.

## 9、社区可读性设计

**指导：吴湛微 朱典**

**简介：**如何提高老年人活动的积极性是 WHO 提出的未来研究方向之一。视觉元素左右人们的情感，可读的环境使人们根据偏好促进个人目的，如增进活动、获取安全感、提高社交等。我们此次课题将探索社区环境中哪些因素能提高老人的身体活动意愿？如何利用环境提高老年人身体活动？社区可读性又该如何表现？

设计过程要求同学们实地考察身边的社区，获取尽可能多的照片或其他大量数据，并从中找出与老年人情感相关的点，在天马行空的同时让设计更加专业可靠。

### Project 9: Readability design in the community

**Tutor: Wu Zhanwei Zhu Dian**

**Description:** One of the future research directions proposed by the WHO is how to increase the motivation of older adults to be active. A readable environment allows people to use environmental preferences to promote personal purposes such as enhancing activity, gaining a sense of security, and improving socialization. Our current project will explore what factors in the community environment can increase the willingness of older adults to be physically active? How can the environment be used to enhance physical activity among older adults? And how should community readability be expressed?

The design process required students to visit their neighborhoods, obtain as many photos or other large amounts of data as possible, and identify points that are emotionally relevant to the elderly, making the design more professional and reliable while still being wildly creative.

### 工作坊安排 Schedule:

7月3日--7月23日 July 3rd - July 23rd

7月3日 周日	7月4日 周一	7月5日 周二	7月6日 周三	7月7日 周四	7月8日 周五	7月9日 周六
开营仪式 课题发布 opening &	组队热身 team up	案例研究 case study	案例研究 case study	主题论坛 lectures	案例研究 case study	案例研究小组汇报 presentation



briefing						of case studies
7月10日 周日	7月11日 周一	7月12日 周二	7月13日 周三	7月14日 周四	7月15日 周五	7月16日 周六
实地调研 field research	实地调研 field research	实地调研小组汇报 presentation of findings	定义问题方案发想 problem statement & ideation	原型制作 prototyping	原型制作 prototyping	原型制作 prototyping
7月17日 周日	7月18日 周一	7月19日 周二	7月20日 周三	7月21日 周四	7月22日 周五	7月23日 周六
方案深化及测试迭代 iterative evaluations						
终期汇报（暂定7月30日）final presentation						

## 部分授课导师介绍

### Introduction of the lecturers



#### 韩 挺

上海交通大学设计学院副院长，教授，博士生导师，医疗机器人研究院双聘教授，教育部“长江学者奖励计划”青年学者（2019），上海浦江人才计划入选者，宝钢优秀教师，唐立新优秀学者，中国工业设计协会十佳教育工作者，担任教育部工业设计教学指导委员会委员，上海市设计之都促进中心理事。

#### Ting Han

Ting Han is a professor at School of Design, Shanghai Jiao Tong University, China. He is Associate Dean Education of School of Design. His research area focuses on design management and strategy, user research and development, experience and interaction design. He provides design research for many international companies. His clients include Intel, Nissan, Mazda, Hp, Yamaha, GE, Panasonic, Samsung etc. He is deputy secretary general of Innovation Design Alliance of China, Senior member of China Mechanical Engineering Society, executive director of Shanghai Industrial Design Association.



## 王红江

上海视觉艺术学院 视觉德稻设计学院 教授 副院长  
健康环境设计研究 叙事空间设计  
宝钢优秀教师 国家一流课程《综合室内设计》负责人

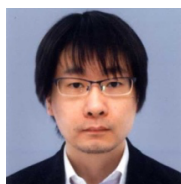
### Hongjiang Wang

Professor and Deputy Dean of The School of Visual Dedao Design, Shanghai  
Academy of Visual Arts

Proficiency: Healthy environment design research

Narrative Space design

The first-class undergraduate course "Integrated interior design"

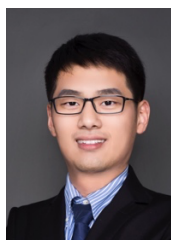


## 吴湛微

上海交通大学设计学院副教授，硕士生导师，数字中国与创新设计工作室主要负责人之一；中国行政管理学会县级行政管理研究会理事；中国电器工业协会电工工具分会理事。现主要从事大数据服务设计、社会-技术系统设计、产品-服务系统设计、交互设计等文理交叉领域的研究实践工作。

### Zhanwei Wu

Zhanwei Wu is an associate professor at School of Design, Shanghai Jiao Tong University, China. He is one of the pioneer researchers in the data driven product and service design field in China. His major research contributions are in big data for social good. His current research includes open data policy and service design, using data-driven methods to design better products and services, using data-intensive products (for example IoTs) to make us smarter.



## 刘 钊

上海交通大学设计学院，副教授，博士生导师

数字化设计，智能交互设计

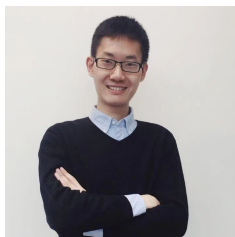
主持并参加国家自然科学基金、国家重大科技专项、上海市科委科技攻关、国际合作、企业应用等各类项目二十余项，发表国内外学术论文八十余篇，授权国家发明专利十二项，获得包括 Reddot Design Award Best of Best (红点最佳设计奖)、IDEA 美国工业设计奖、韩国 K-Design、中国工业设计大赛、中国高校计算机大赛等奖项十余项。

## Zhao Liu

Associate Professor, Doctoral Supervisor, School of Design, Shanghai Jiao Tong University

Intelligent design theory and method, Intelligent system design and application

He presided over and participated in more than 20 projects of the National Natural Science Foundation of China, the National Major Science and Technology Project, the Shanghai Science and Technology Commission, international cooperation, and enterprise applications, etc. He has published more than 80 foreign academic papers, and has applied for 12 authorized national invention patents. He has received more than ten awards including Reddot Design Award Best of Best, International Design Excellence Award, K-Design Award, China Industrial Design Competition, China Collegiate Computing Contest.



## 谈欣洋

上海交通大学设计学院 助理教授 博士生导师

智能医疗器械设计研发、康复辅具自动化传感与驱动、穿戴设备人机交互、运动系统测量与建模

博士毕业于英国帝国理工学院戴森设计工程学院 MorphLab 机器人实验室；获得英国帝国理工和皇家艺术学院双学位硕士；本科毕业于清华大学工业设计专业。IEEE Membership, IEEE 医学生物工程协会会员。主持或参与多个国家和省

部级科研项目；是 IEEE RAL、IEEE TBME、IEEE ICRA 等多个国际高影响期刊会议审稿人。

### **Xinyang Tan**

Assistant Professor, School of Design, Shanghai Jiao Tong University  
Development of Intelligent Medical Devices, Automatic Sensing and Actuation in  
Rehabilitation Assistive Devices, Human-Machine-Interaction of Wearables,  
Measurement and Modelling of Human Movement System.

Xinyang Tan received his PhD degree from the robotics lab (MorphLab) at the Dyson School of Design Engineering, Imperial College London, UK; He was also awarded double masters degrees from the Imperial College London and the Royal College of Art, and he received his undergraduate degree from the Industrial Design Department in Tsinghua University. IEEE Membership, IEEE Engineering In Medicine & Biology Society Membership. He is the Principal Investigator or the main research member of several national or provincial research grants. He has been the reviewer of several high impact international research journals and conferences, e.g. IEEE RAL, IEEE TBME, IEEE ICRA.



### **管轶群**

德国 AssmannSalomon 建筑师事务所中国区合伙人、栖城设计董事合伙人、  
上海视觉艺术学院兼职教授

致力于推动中国健康及养老建筑设计领域的发展，他带领团队设计完成 200 多个康养类项目并屡获大奖。他以养老社区的设计实践作为对“理想社区”思考的出发点，主张重建“附近化”的社区生活，同时提出“非正式”、“弱边界”，“强连接”等基于社会学视角的设计关注点。他致力于推动中国康养设计领域的发展，多次受邀在清华养老产业论坛、养老产业陆家嘴论坛等专业论坛作专题演讲，接受美通社（PR Newswire）、丹麦商业周刊（BORSEN）、南华早报等公众媒体的采访。此外，他也是中国工程标准化协养老服务设施专业委员会、中国老年学及老年医学学会标准化委员会等专业协会的专家顾问，参与多项国家标准及团体标准的编制及修订工作。

### **Yiqun Guan**

Partner of AssmannSalomon Architects in China, Managing partner of Qicheng  
Design, adjunct professor of Shanghai Institute of Visual Arts

He is committed to promoting the development of China's health and pension architecture design field. He has been invited to make speeches at Tsinghua Pension Industry Forum, China Aid, Pension Industry Lujiazui Forum, etc. He has been interviewed and published articles by TV Tokyo, BORSEN, Pr Newswire, Architectural Technique, DI

Design Trend, H+A Chinese Architecture, Architecture China Weekly, Real Estate Watch and other media. In addition, he is an expert consultant of China Engineering Standardization Association and other professional associations, and has participated in the compilation of a number of professional standards related to pension design.



**李 斌**

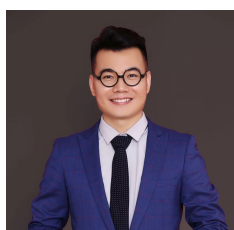
渔水源（上海）信息科技有限公司联合创始人, CMO; 上海交通大学设计学院 Teaching Fellow; UXPA 全国用户体验专业协会年度行业文集主编;

2010 年至 2021 年就职于上汽通用/泛亚汽车技术中心, 先后在设计部、项目管理部及规划部工作, 曾负责别克/雪佛兰品牌的概念车、量产车设计创新管理, 新技术应用规划与整车项目管理, 研发中心中长期战略规划、BSC/C-SOX 体系以及政府关系等工作。工作期间长期致力于汽车行业的开放式创新与产学研合作、用户体验及数智化战略转型布道。

**Bin Li**

Co-founder, CMO, Joyfish (Shanghai) Information Technology Co., Ltd. Teaching Fellow, School of Design, Shanghai Jiaotong University; Chief editor of annual Industry Collection of UXPA National User Experience Professional Association;

From 2010 to 2021, he worked in the design Department and project Management Department and planning Department of SAIC-GM/Pan Asia Automotive Technology Center. He was responsible for Buick/Chevrolet design innovation management of concept and mass-production vehicles, technology application planning and project management, mid and long term strategic planning, BSC/C-SOX system and government relations. During his work, he has been committed to open innovation, industry-university-research cooperation, user experience and digital intelligence strategic transformation in the automotive industry.



**秦玉龙**

上海交通大学设计学院设计实践导师。早年于芬兰阿尔托大学访学，曾任职华为消费者体验中心，并担任国际设计合作部项目经理。研究领域为服务设计，整合创新，食物设计，参与和指导学生获得十多项国际设计奖项。

### **Yulong Qin**

Teaching fellow of Shanghai Jiao Tong University School of Design. In his early years, as a visiting scholar at Aalto University, also project manager of International Design Cooperation Department of Consumer Experience Center of Huawei. The areas of study are Design Services, Integrated Innovation, Food Design. He has participated in designing and mentoring students won more than ten international design awards.



### **刘逸青**

上海社会科学院 大数据专家顾问  
上海交通大学设计学院 Teaching Fellow  
渔跃体验咨询 创始人  
挖数科技 联合创始人

服务于上汽集团、小米生态链、OPPO、添可（科沃斯）、葛兰素史克（GSK）、欧莱雅、联合利华、丝芙兰、资生堂、Bilibili、Baidu、元气森林、日食记等客户，开展产学研课程共建、产品定义、用户共创、大数据精准营销、品牌孵化等合作。

### **Yiqing Liu**

Teaching Fellow, School of Design, Shanghai Jiaotong University  
Founder of Yuyue Experience Consulting  
Co-founder of Digo Technology

In service of SAIC Group, Xiaomi, OPPO, Tianke (Kovos), GlaxoSmithKline (GSK), L'Oreal, Unilever, Sephora, Shiseido, Bilibili, Baidu, Yuanqisenlin, and etc; carry out the cooperation of industry-study-research course construction, product definition, user co-creation, big data precision marketing, brand incubation and so on.



**宋东瑾**

上海交通大学设计学院 助理教授  
社会创新设计与可持续

**Dongjin Song**

Assistant Professor, School of Design, Shanghai Jiao Tong University  
design for social innovation towards sustainability



**张克俊**

浙江大学计算机科学与技术学院 教授

浙江大学科技设计创新创业实验室 (NEXT Lab) 负责人

计算机科学与技术、人工智能、设计学方向博士生导师，教授。近年来在人工智能艺术与设计、人机交互与情感计算、跨媒体设计与大数据等领域主持国家自然科学基金、国家重点研发计划课题、浙江省“尖兵”“领雁”研发攻关计划、浙江省重点自然科学基金及中国博士后基金等项目十多项，在计算机学报、机械工程学报、中国工程科学、Design Studies、IEEE T Affective Computing、SCIENCE CHINA-Information Science、ACM MM、AAAI 等国内外知名期刊或会议上发表论文三十余篇，拥有授权发明十多项，著作多部，入选浙江省“科技追梦人”，获首届浙江省高校教师教学创新大赛特等奖。

**Kejun Zhang**

College of Computer Science and Technology Zhejiang University / Professor

Head of Design Innovation and Entrepreneurship Laboratory (NEXT Lab)

His major research area includes affective computing, affective robots, artificial intelligence and man-machine interaction and he hosts natural science foundation of China, postdoctoral foundation in China and several enterprises and institution

cooperation projects. Moreover, he is the author and co-author of more than 30 international and national refereed articles.



## 周介立

上海交通大学在读博士

面向癌症的生物信息学和临床医疗人工智能算法研发

在美国卡耐基梅隆大学获得计算机科学硕士学位，和统计与机器学习本科学位。美国硅谷人工智能独角兽公司、纽交所上市公司 C3 AI 数据科学家、团队早期成员。在职期间成功交付多项基于人工智能的工业设备异常检测和预测性维护项目，荣获 C3 AI 公司突出贡献奖 (Overachievement Award)。医学人工智能算法相关研究成果发表于 BioKDD, TCBB, Clinical eHealth 等医疗人工智能国际会议和期刊。于 2021 年成立了 HealthX Club，旨在融合医疗保健行业与人工智能、大数据、元宇宙等先进技术之间的鸿沟。

## Jieli Zhou

Ph.D. student at the University of Michigan - Shanghai Jiao Tong University  
(UM-SJTU) Joint Institute

Computational biology, Interpretable artificial intelligence, Deep representation  
learning with small data

He received his B.S degree in Mathematical Sciences (2017) and M.S. degree in Computational Data Science (2018) both from Carnegie Mellon University, Pittsburgh, PA, USA. After graduating from CMU, Jieli joined C3.ai at Redwood City, CA, USA as a Data Scientist and worked on a series of high-dimensional time-series modeling projects like predictive maintenance and anomaly detection for industrial equipment. Jieli received the Overachievement Award during his time at C3.AI. After leaving silicon valley, Jieli pivoted to the Healthcare industry and is now pursuing a Ph.D. degree in Healthcare AI. His main research interests include computational biology, interpretable artificial intelligence, and deep representation learning with small data. In addition, Jieli founded HealthX Club in 2021 to bridge the gap between Healthcare industry and Advanced technology like Artificial Intelligence, Big data, Metaverse, etc.

## 往期报道 Previous reports :

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