

杭州未来视创电子商务工作室

个人学术网站/实验室网站模版

微信留言: [HciStudio0403](#) (拍下前建议+V 沟通需求)

支持基于模版自定义修改, 在原来费用基础上加 100 起步, 具体取决于额外自定义要求

模版网站 3-5 天发货

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Your Name

Ph.D. Student

Your Affiliation

yourname (at) example.edu



About Me

I am a Ph.D. student at ...

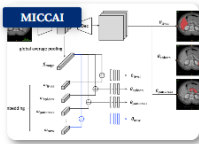
Research Interests

- **Computer Vision:** image recognition, image generation, video captioning
- **Machine Learning:** meta-learning, incremental learning, transfer learning

News

- [Feb. 2020] Our paper about incremental learning is accepted to CVPR 2020.
- [Feb. 2020] We will host the ACM Multimedia Asia 2020 conference in Singapore!
- [Sept. 2019] Our paper about few-shot learning is accepted to NeurIPS 2019.
- [Mar. 2019] Our paper about few-shot learning is accepted to CVPR 2019.

Publications

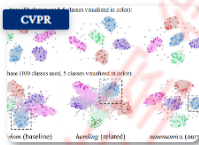


Continual Learning for Abdominal Multi-Organ and Tumor Segmentation

Yixiao Zhang, Xinyi Li, Huimiao Chen, Alan Yuille, Yaoyao Liu*, Zongwei Zhou* (*Corresponding authors)

International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), 2023.

[PDF](#) [Code](#) [BibTex](#) [Early Accept](#)



Mnemonics Training: Multi-Class Incremental Learning without Forgetting

Yaoyao Liu, Yuting Su, An-An Liu, Bernt Schiele, Qianru Sun
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

[PDF](#) [Code](#) [Project Page](#) [BibTex](#) [Oral Presentation](#)

Services

Conference Reviewers

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2021-2023
- IEEE/CVF International Conference on Computer Vision (ICCV) 2021
- European Conference on Computer Vision (ECCV) 2022

Journal Reviewers

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)

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Your Name / Site Title

Publications

Talks

Teaching

Portfolio

Blog Posts

CV

Guide

Home Webiste

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Journal Articles

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Paper Title Number 3

Published in *Journal 1*, 2015

This paper is about the number 3. The number 4 is left for future work.

Recommended citation: Your Name, You. (2015). "Paper Title Number 3." *Journal 1*. 1(3).
[Download Paper](#) | [Download Slides](#)

Paper Title Number 2









Published in *Journal 1*, 2010

This paper is about the number 2. The number 3 is left for future work.

Recommended citation: Your Name, You. (2010). "Paper Title Number 2." *Journal 1*. 1(2).

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Talks and presentations

[Conference Proceeding talk 3 on Relevant Topic in Your Field](#)

🕒 March 01, 2014

Conference proceedings talk, Testing Institute of America 2014 Annual Conference, Los Angeles, CA, USA

This is a description of your conference proceedings talk, note the different field in type. You can pu

[Talk 2 on Relevant Topic in Your Field](#)

🕒 February 01, 2014

Talk, London School of Testing, London, UK

[More information here](#)

[Tutorial 1 on Relevant Topic in Your Field](#)

🕒 March 01, 2013

Tutorial, UC-Berkeley Institute for Testing Science, Berkeley, CA, USA









[More information here](#)

[Talk 1 on Relevant Topic in Your Field](#)

🕒 March 01, 2012

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Teaching

[Teaching experience 2](#)

Workshop, *University 1, Department*, 2015


This is a description of a teaching experience. You can use markdown like any other post.

[Teaching experience 1](#)

Undergraduate course, *University 1, Department*, 2014

This is a description of a teaching experience. You can use markdown like any other post.









Sitemap

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Portfolio

[Portfolio item number 1](#)

Short description of portfolio item number 1











[Portfolio item number 2](#)

Short description of portfolio item number 2

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Blog posts

2199

[Future Blog Post](#)

 less than 1 minute read

 Published: January 01, 2199

This post will show up by default. To disable scheduling of future posts, edit `config.yml` and set `future: false`.

2015

[Blog Post number 4](#)

 less than 1 minute read

 Published: August 14, 2015

This is a sample blog post. Lorem ipsum I can't remember the rest of lorem ipsum and don't have an internet connection right now. Testing testing testing this blog post. Blog posts are cool.









2014

[Blog Post number 3](#)

 less than 1 minute read

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-  ORCID
-  PubMed
-  GitHub
-  Bluesky

CV**Education**

- Ph.D in Version Control Theory, GitHub University, 2018 (expected)
- M.S. in Jekyll, GitHub University, 2014
- B.S. in GitHub, GitHub University, 2012

Work experience

- Spring 2024: Academic Pages Collaborator
 - GitHub University
 - Duties includes: Updates and improvements to template
 - Supervisor: The Users
- Fall 2015: Research Assistant
 - GitHub University
 - Duties included: Merging pull requests
 - Supervisor: Professor Hub
- Summer 2015: Research Assistant
 - GitHub University

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我的个人学术笔记/博客

A simple, easy lab notebook website

[View on GitHub](#)

Notes

[notes-template](#)

lab-template3 is maintained by [jade121213](#).

This page was generated by [GitHub Pages](#).

杭州未来视创工作室 微信Hcistudio403

Year Week number

A simple, easy lab notebook website

[View on GitHub](#)

Goals

In this section I will list the weekly, quarterly, and yearly goals I hope to achieve or have completed this week.

Weekly:

- ☒ Create a lab notebook repo
- ☐ Read the docs

Quarterly:

- ☐ Present my work to the lab
- ☐ Write some python code
- ☐ Write some snakemake files

Yearly:

- ☐ Have a well documented project in github that is functional (if not perfect)

Results

In this section write the verbatim results (eg. copy the code chunks, error reports, plots) that relate to the goals you have achieved this week.

example: This week I created a lab notebook repo using this method (include the cli arguments and the process below)

Discussion

In this section explain your results and how they relate to you goals

example: I am applying for credit this quarter. Therefore, I chose to create a lab notebook repo in github to continue practicing git and github as it is an important tool for biotech/bioinformatics.

Journal

In this section add anything else you may wish to include.

example: Nothing additional to comment this week. Work has been taken allot of my time this week. It's finals, I was not able to complete the goals I thought I would. I got a new hamster and it is very fluffy.

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实验室模板网站

这里是未来人工智能创新实验室, 目前我们在招AI实习研究生, 欢迎你的加入!

Highlights



Our Research

我们的研究集中在计算机视觉, 三维重建, 具体来说我们主要利用NerF算法来实
现3D物体的高保真建模渲染.

[See our publications →](#)

Highlights



Our Research

我们的研究集中在计算机视觉, 三维重建, 具体来说我们主要利用NerF算法来实
现3D物体的高保真建模渲染.

[See our publications →](#)

Our Projects

我们目前正在开发一个大型的Text-3D Model的 人工智能生成式平台.

[Browse our projects →](#)



Our Team

我们的公司包的员工来自985/211高校, 国内大型互联网企业, 同时还一大量海外留
学背景的工程师加入.

[Meet our team →](#)



RESEARCH

这里是研究展示界面

Highlighted



[Open collaborative writing with Manubot](#)
Daniel S. Himmelstein, Vincent Rubineti, David R. Slochower, Dongbo Hu, Venkat S. Malladi, Casey S. Greene, Anthony Gitter
PLOS Computational Biology · 04 Dec 2020 · doi:10.1371/journal.pcbi.1007128
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
Manubot Manuscript Source Website
[open-science](#) [collaboration](#) [deep-review](#) [manubot](#) [open-scholarly-writing](#)

All

Search items on this page

搭建部署

TEAM

这里是团队界面



Jade
密苏里大学



John Doe
圣路易斯大学



Sarah Johnson
Lead Programmer
华盛顿大学

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

这里是博客/文章列表.

Search items on this page

biology

medicine

big-data

2023

三维重建以及神经渲染中的学习



John Doe

February 23, 2023

January 20, 2026

biology

medicine

1: 摘要 提出基于学习 (learning-based) 方法, 使用野外照片的非结构化集合 (unstructured collections of in-the-wild photographs) 来合成复杂场景。之前的Nerf通过MLP的权重来模拟场景的密度、颜色。虽然在静态对象生成上比较好, 但在uncontrolled images不受控的图片中, 会有一些ubiquitous, real-world phenomenon, 也就是可变照明或者瞬时遮光器variable illumination or transient occluders, 本文基于Nerf引入了一些列扩展来解决这些问题。

2021

[深度学习入门教程 \(2\): 使用预训练模型来文字生成图片TextToImageGenerationWithNetwork](#)

三维重建以及神经渲染中的学习



John Doe

February 23, 2023

January 20, 2026

biology

medicine

1: 摘要 提出基于学习 (learning-based) 方法, 使用野外照片的非结构化集合 (unstructured collections of in-the-wild photographs) 来合成复杂场景。之前的Nerf通过MLP的权重来模拟场景的密度、颜色。虽然在静态对象生成上比较好, 但在uncontrolled images不受控的图片中, 会有一些ubiquitous, real-world phenomenon, 也就是可变照明或者瞬时遮光器variable illumination or transient occluders, 本文基于Nerf引入了一些列扩展来解决这些问题。

概况来讲: Nerf要求在相同位置、视角拍摄的照片完全一样, 也就是必须在尽可能短的时间内拍的照片, 因为这种情况下光线变化等影响会很小; nerf-wild放松了限制, 通过解决光照变化以及移动遮挡的问题, 来使得输入的照片不一定完全一样, 同一个位置、同一个视角上午拍的或者下午拍的都可以作为输入。

< Previous post

[深度学习入门教程 \(2\): 使用预训练模型来文字生成图片TextToImageGenerationWithNetwork](#)

✉ CONTACT [🔗](#)

欢迎通过向邮箱投递简历来加入我们，欢迎五湖四海的朋友！

✉ Jane@smith.com

☎ (555) 867-5309

📍 Address



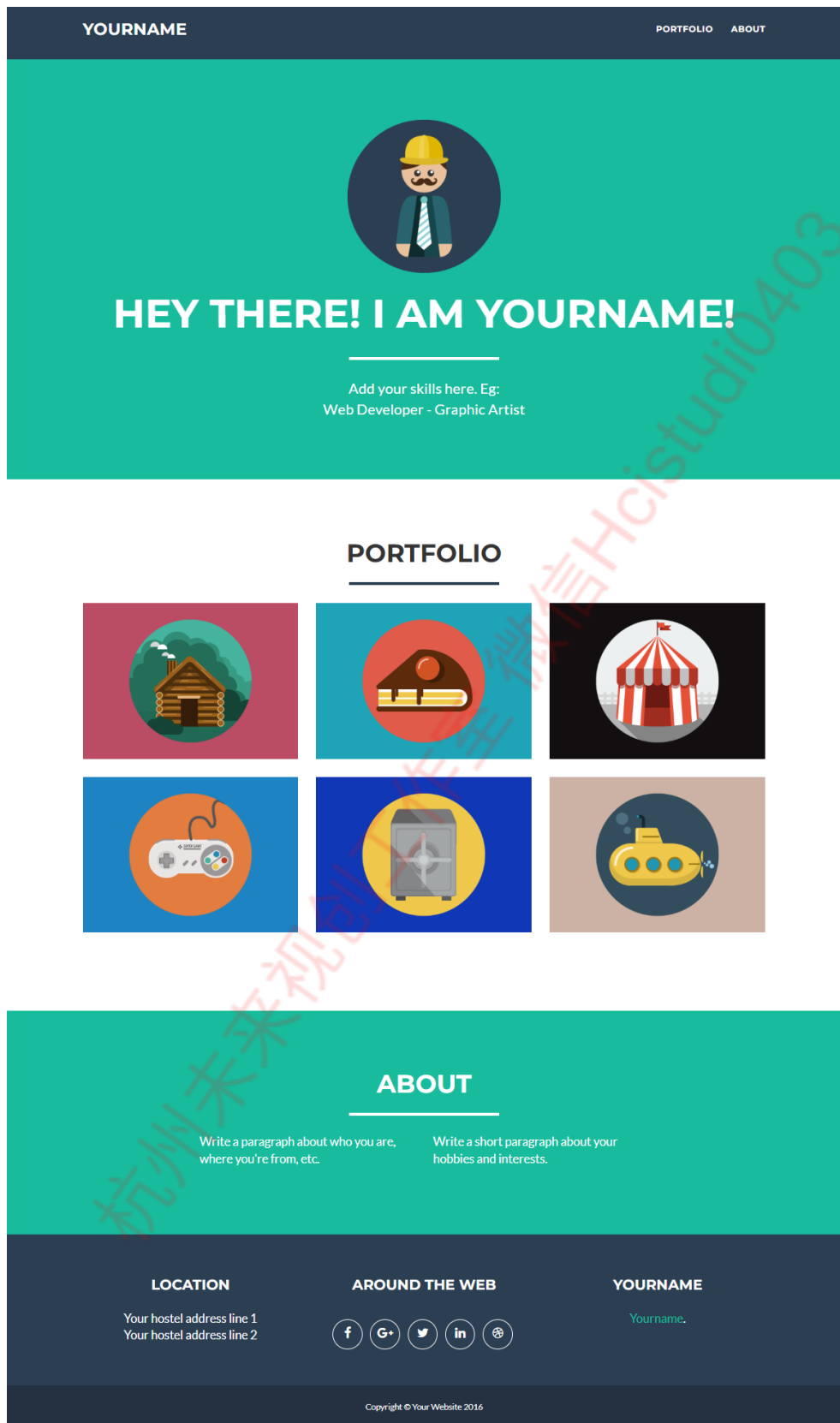
Lorem ipsum



Lorem ipsum

杭州未来视创工作室 微信Hcistudi0403

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PROJECT TITLE



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Client: [Yourname](#) Date: [April 2014](#) Service: [Web Development](#)

✕ Close

PROJECT TITLE

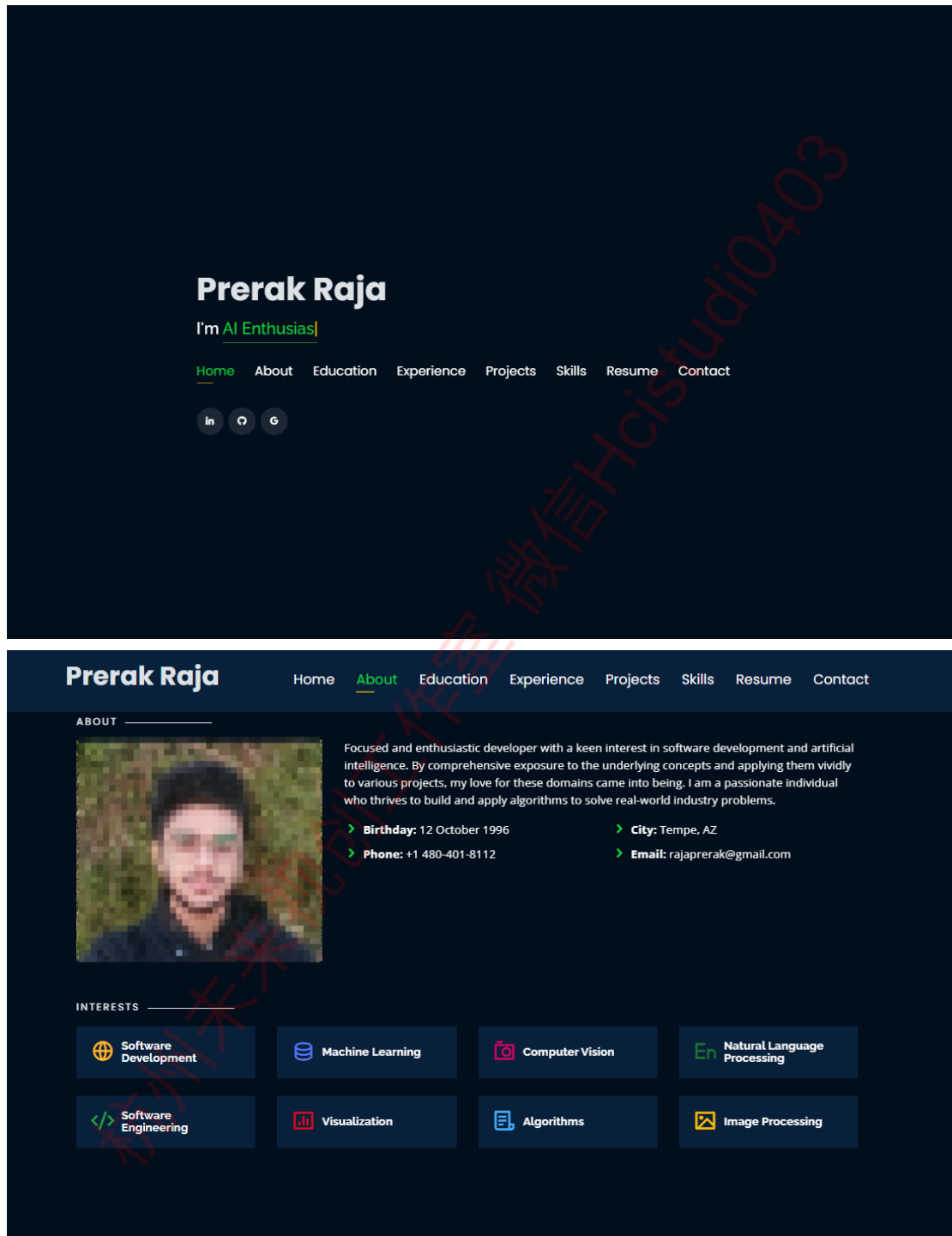


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Client: [Yourname](#) Date: [April 2014](#) Service: [Web Development](#)

✕ Close

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EDUCATION

*MS in Computer Science*

January 2021 - Present

Relevant Coursework

- Distributed Database Systems
- Cloud Computing
- Foundation Of Algorithms

**Ahmedabad
University***B.Tech. in Information and Communication Technology*

July 2014 - May 2018

Relevant Coursework

- Database Management Systems
- Algorithms & Optimization for Big Data
- Machine Learning

ONLINE CERTIFICATION

**Stanford
University****Stanford
University****UC San Diego**

deeplearning.ai

EXPERIENCE

Arizona State University

January 2021 - Present

Software Engineer

- Managed large-scale deployment of JupyterHub with Nbgrader and webwork software, facilitating approx 5500 students.
- Configured, troubleshooted, and administered server-side web applications for the statistics department.
- Handled Linux server administration and Apache configuration; automated tasks like user account creation, managing student database, and system maintenance using Shell and automation scripts, reducing manual work by 200%.

Augmenify Infotech Pvt. Ltd.

August 2020 - November 2020

Backend Developer

- Documented and coded server-less web application for the hotel industry and designed REST API using Flask-based JWT authentication.
- Redeveloped an existing system to support customer account management, scheduling, and time tracking; enabled dynamic API calls with the help of Amazon API Gateway, AWS Lambda, and DynamoDB.

Epitome Corporation Pvt. Ltd.

July 2019 - Dec 2019

Software Developer

- Tested, designed, and developed backend APIs of WebRTC enabled multi-party video conferencing web application and delivered the project 15 days ahead of schedule by efficiently designing the flow of the project.

Meditab Software Pvt. Ltd.

PROJECTS

ALL

WEB-APP

PROJECT

Twitter Analysis



Image recognition as Service



Music Streaming Website



Movie Recommender



Resume Section Classifier



Video Description Generator



ML-DL Web-App



Image Generator



SKILLS

Languages and Databases

 python  Java  HTML5  CSS3  MySQL  PostgreSQL

Frameworks

   Bootstrap  TensorFlow  PyTorch  OpenCV  Keras

Tools

 git  Amazon web services  Google Cloud  heroku  jupyter

CONTACT



My Address

1275 E University Dr.
[Redacted]
[Redacted]



Social Profiles



Email

rajaprak@gmail.com
pkraja@asu.edu



Contact

[Redacted]
[Redacted]

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Avatar

Experience

Projects

Skills

Education

Contact

Resume

Hi, I'm Varad Bhogayata.

Self-driven, quick starter, passionate programmer with a curious mind who enjoys solving a complex and challenging real-world problems.

[in](#) [in](#) [in](#)

[Read More](#) [Contact Me](#)

I am a Computer Science Grad Student at Arizona State University. I enjoy problem-solving and coding. Always strive to bring 100% to the work I do. I have worked on technologies like Python, Django, Flask, MySQL, PostgreSQL, MongoDB, HTML5, CSS, Java, C++ during my bachelor's. I have 19 months of professional work experience which helped me strengthen my experience in Python, Flask, and Django. I am passionate about developing complex applications that solve real-world problems impacting millions of users.

Languages: Python, Java, JavaScript, C, C++, HTML/CSS, Bash

Databases: MySQL, PostgreSQL, MongoDB

Libraries: NumPy, Pandas, OpenCV

Frameworks: Flask, Django, Node.js, Keras, TensorFlow, PyTorch, Bootstrap, Apache Beam

Tools & Technologies: Git, Docker, AWS, GCP, Heroku, JIRA

Avatar

Experience

Projects

Skills

Education

Contact

Resume

ZHIFFY LOGO

ZHIFFY

Software Engineer

Developed and managed the backend of an e-commerce platform using Flask, MongoDB, and AWS. Worked on three web applications targeting customers, selling vendors, and admin users; built 50+ RESTful APIs with functionalities such as login/sign up, view a product, add a product to cart, checkout the order, etc. Improved the response time by 20% by refactoring the codebase and changing database design and queries. Added a bulk upload feature which reduced the manual work of adding products into a database.

Tools: Python, Flask, MongoDB

July 2020 - Nov 2020 | Hyderabad, India

MEDITAB LOGO

MEDITAB

Programmer Analyst

Customized a tree-based optimization algorithm that separates drugs into distinct groups to maximize the concurrent execution of drug dispenser robots; improved an optimization algorithm that reduced the cycle time of the automation process by 25%. Devised a customized ricinapon algorithm to extend the functionality of the current environment to a multi-robot and multi-system environment. Built a modular video analytics app using Flask, OpenCV that tracks the location of each human in a multi-camera environment; utilized perspective transformation, object detection, and object tracking to find the location of a human. Increased the speed of the video analytics app by 20% by using a customized YOLOv3 algorithm to perform object detection and DeepSORT algorithm for multi-object tracking.

Tools: Python, Flask, OpenCV, Keras, Tensorflow, PyTorch

Dec 2018 - July 2019 | Ahmedabad, India

MTAG logo

MTAG INNOVATIONS

Software Developer

Programmed a cloud-based web app using Flask and JavaScript aimed at storing, visualizing, and tracking temperature and humidity of each drug container to estimate the degradation of the drug. Created an alert system to send notifications and emails when the parameters exceeded the threshold.

Tools: Python, Flask, JavaScript

Avatar

Experience

Projects

Skills

Education

Contact

Resume

Languages and Databases

PythonHTML5CSS3MySQLPostgreSQLShell Scripting

Libraries

NumPyPandasOpenCVscikit-learnmatplotlib

Frameworks

DjangoFlaskBootstrapKerasTensorFlowPyTorch

Other

GitAWSHeroku

ARIZONA STATE UNIVERSITY

Tempe, USA

Degree: Master of Science in Computer Science

CGPA: 4.0/4.0

Relevant Courseworks:

Distributed Database Systems

SCHOOL OF ENGINEERING AND APPLIED SCIENCE,

AHMEDABAD UNIVERSITY

Ahmedabad, India

Degree: Bachelor of Technology in Information and Communication Technology

CGPA: 3.13/4.33

Relevant Courseworks:

Data Structures and Algorithms

Databases Management Systems

Operating Systems

Machine Learning

Computer Vision

Avatar

Experience

Projects

Skills

Education

Contact

Resume

GitAWSHeroku

ARIZONA STATE UNIVERSITY

Tempe, USA

Degree: Master of Science in Computer Science

CGPA: 4.0/4.0

Relevant Courseworks:

Distributed Database Systems

Cloud Computing

Foundations of Algorithms

SCHOOL OF ENGINEERING AND APPLIED SCIENCE,

AHMEDABAD UNIVERSITY

Ahmedabad, India

Degree: Bachelor of Technology in Information and Communication Technology

CGPA: 3.13/4.33

Relevant Courseworks:

Data Structures and Algorithms

Databases Management Systems

Operating Systems

Machine Learning

Computer Vision

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varadbhogayata@gmail.com

github.com/varadbhogayata


in.linkedin.com/in/varadbhogayata

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Vicidomini Lab

NewsTeamResearchPublicationsTeachingPositionsContactBrightEyes_ERC

Lab@IIT



Giuseppe Vicidomini

Senior Researcher Tenured,
Principal Investigator

Genoa, IT


Email


Google Scholar


ORCID


Twitter

Github

SPAD Array Detector on Custom Microscope

Confocal Versus Image Scanning Microscopy

MMS Group April 2022

Grants and Fundings

Our Goal

Optical microscopy is one of the least invasive techniques to visualise biological structure and function – on almost the molecular scale – in living cells and organisms. However, understanding many of the fundamental biological processes relevant to health and disease remain beyond the capabilities of conventional optical microscopy. Our aim is to design and develop cutting-edge microscopy and analytical tools that allow the biologists to peer inside living systems with unprecedented spatiotemporal resolutions and ranges, minimal invasivity, and augmented information content. To reach this goal, our projects synergically integrate novel (quantum) photonics technologies, labelling protocols, optical architectures, spectroscopy techniques, and machine learning approaches. Although technology development will always be our focus, we also collaborate with biologists to road-test and refine our tools – and to ensure they enable new biological insights.

Last News

Welcome to our new Team member Sanket Patil. Trained in biotechnology, he will use his expertises in single-molecule tracking and Python to drive our BrightEyes_ERC project to a new level.

Where To Meet Us

- February 18th - 22nd, 2023, Biophysical Society 2023 Annual Meeting
- April 2nd - 5th, 2023, Focus on Microscopy 2023
- April 23rd - 27th, 2023, Optica Biophotonics Congress
- June 26th - 30th, 2023, CLEO/Europe-EQEC 2023
- July 29th - 31st, 2023, EBSA Satellite Meeting
- July 31st - August 4th, 2023, EBSA 2023 Congress
- August 28th - 30th, 2023, SMLMS 2023
- September 11th - 15th, 2023, EOS Annual Meeting 2023

The Laboratory


We're based at the Center for Human Technology at the Istituto Italiano di Tecnologia.

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Vicidomini Lab

NewsTeamResearchPublicationsTeachingPositionsContactBrightEyes_ERC

Lab@IIT



Giuseppe Vicidomini

Senior Researcher Tenured,
Principal Investigator

Genoa, IT

Email

Google Scholar

ORCID

Twitter

Github

News

It is time to introduce a new #PhD student from @IITalk. @garregiacomo is a #mathematician trained @UniGenova. He will further strengthen our multidisciplinary. Happy to have @garregiacomo onboard. #MachineLearning #superresolution #microscopy #quantum #imaging #Python pic.twitter.com/Mn9xVHWZeG

— Vicidomini Lab (@VicidominiLab) January 9, 2023

Have a look at our new publication on @NatureComms! In this work, we exploit the information provided by a #SPADarray to push the optical sectioning and resolution of #imagescanningmicroscopy to its limits. <https://t.co/Ws0zWittcK> #BrightEyes_ERC @IITalk @ERC_Research

(1/5) [pic.twitter.com/WqcKVFlubb](https://t.co/WqcKVFlubb)

— Vicidomini Lab (@VicidominiLab) December 15, 2022

#quantum is here! Why not collect #fluorescence #photon-by-photon in your laser-scanning #microscope? We

**Giuseppe Vicidomini**Senior Reseracher Tenured,
Principal Investigator

Genoa, IT

Email

Google Scholar

ORCID

Twitter

Github

Main Projects

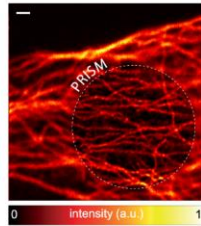
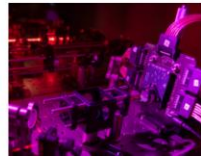


Image Processing and Analysis

The job of image restoration is to figure out what the instrument is actually trying to tell you (Prof. Roy Pike).

The aims of this set of projects is to implement computational algorithms able to improve the quality/resolution of a microscopy image/dataset (e.g., via deconvolution), and to extract from it the maximum amount of information, both from the biological (e.g., biomolecules localization/concentration) content and the optical system content (e.g., spatial resolution, optical aberrations). [Read More](#).



Single-Photon Laser-Scanning Microscopy with SPAD Array Detector

When you consider humans on the average, we have one brain, one heart, two lungs, two kidneys,...one ovary, one testicle (Prof. Steven M. Block).

Typically, laser scanning microscopy provides a single averaging intensity value for each pixel/position of the sample, i.e., a value for each detection volumes. Surely, this averaging/integrating process discards important information, such as the temporal dynamics, and the spatial distribution of detection volume image. To overcome this limitation, we have recently introduced a single-photon detector array able to register photon one at a time. In short, the detector allows to tag photons temporally (with picosecond resolution) and spatially (with micrometer resolution). The aim of this set of

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Research Team

Principal Investigator

**Giuseppe Vicidomini**
Senior Researcher

Post-Doctoral Researchers

**Giuseppe Vicidomini**Senior Reseracher Tenured,
Principal Investigator

Genoa, IT

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Publications

2024

bioRxiv

ALS-associated FUS mutation reshapes the RNA and protein composition of Stress Granules

Davide Mariani, Adriano Setti, Francesco Castagnetti, Erika Vitiello, Lorenzo Stuffera Mecarelli, Gala di Timoteo, Andrea Giuliani, **Eleonora Perego**, **Sabrina Zappone**, Nara Liessi, Andrea Armirotti, **Giuseppe Vicidomini**, Irene Bozzoni
Published in *bioRxiv*, January 2024 ([see publication](#))
- Paper



Compact and effective photon-resolved image scanning microscope

Giorgio Tortorolo, **Alessandro Zunino**, **Simone Piazza**, **Mattia Donato**, **Sabrina Zappone**, Agnieszka Pierzyńska-Mach, **Marco Castello**, **Giuseppe Vicidomini**
Published in *Adv. Phot.*, January 2024 ([see publication](#))
- Paper, Corresponding author



2023



Single-photon microscopy to study biomolecular condensates

Eleonora Perego, **Sabrina Zappone**, Francesco Castagnetti, Davide Mariani, Erika Vitiello, Jakob Rupert, Elsa Zacco, Gian Gaetano Tartaglia, Irene Bozzoni, **El Slenders**, **Giuseppe Vicidomini**
Published in *Nat. Comm.*, December 2023 ([see publication](#))
- Paper, Corresponding author



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Teaching

Principle of Image Scanning Microscopy

Download - Presentation Slides

Lecture, *online*, 2025

Optics for Microscopy and Spectroscopy

Download - Lecture Notes

Ph.D. student course, *DIBRIS, University of Genoa in collaboration with Istituto Italiano di Tecnologia*, 2025

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Open Positions

Our group is highly interdisciplinary and brings together students and postdocs from a variety of subject areas, ranging from engineering and physical sciences to computer science and biology. We always welcome inquiries and applications from highly motivated candidates at the undergraduate, PhD or postdoc level. Please contact [Dr. Giuseppe Vicidomini](#) for inquiries.

Postdoc Position in Smart Microscopy

Published:

4th October 2025 - [Open \(Deadline 31st October 2025\)](#)

Commitment & contract:

Collaboration Contract, 24 Months

Location:

Centre for Human Technology, Via Enrico Melen, 83 Bldg. B 16152, Genoa

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Contact

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BrightEyes ERC Consolidator Grant 2018

European Research Council
Established by the European Commission

Fluorescence single-molecule (SM) detection techniques have the potential to provide insights into the complex functions, structures and interactions of individual, specifically labelled biomolecules. However, current SM techniques work properly only when the biomolecule is observed in controlled environments, e.g., immobilized on a glass surface. Observation of biomolecular processes in living (multi)cellular environments – which is fundamental for sound biological conclusion – always comes with a price, such as invasiveness, limitations in the accessible information and constraints in the spatial and temporal scales. The overall objective of the BrightEyes project is to break the above limitations by creating a novel SM approach compatible with the state-of-the-art biomolecule-labelling protocols, able to track a biomolecule deep inside (multi)cellular environments – with temporal resolution in the microsecond scale, and with hundreds of micrometres tracking range – and simultaneously observe its structural changes, its nano- and micro-environments. Specifically, by exploring a novel single-photon detectors array, the BrightEyes project will implement an optical system, able to continuously track in real time the biomolecule of interest from which to derive its dynamics and interactions.

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