- MR. Bangyu Lan

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## **INTERESTS**

Robotics and Mechatronic, Signal Processing, Computer Vision, Natural Language Processing, Multimodal Machine Learning, Software Engineering, etc.

$\mathbf{E}\mathbf{\Gamma}$	DUCATION				
_	IVERSITY OF TWENTE	Enschede, Netherlands			
	Faculty of Electrical Engineering, Mathematics and Computer Science				
	ster of Electrical Engineering (Robotics and Mechatronic track)	Sept. 2022 to June 2024			
	GPA: 7.5/10	Sept. 2022 to take 2021			
	Fresh year M.S. student, supervised by <u>Dr. Niu Kenan (U. Twente)</u>				
	Research signal detection and interpretation for ultrasound data				
_	The control of the co				
RO	CHESTER INSTITUTE OF TECHNOLOGY	Rochester, U.S.A.			
Col	lege of Computing and Information Sciences	Sept. 2021 to June 2022			
	1st year P.h.D. student, supervised by Dr. Yu Kong (M.S.U) and Dr. Matthew Wrig				
	Research Deepfake videos generation (generate vivid expressions using only audio)				
	Passed the first-year Ph.D. Research Potential Accessment (RPA)				
	Stop, forbided by U.S. VISA rejection.				
HA	RBIN INSTITUTE OF TECHNOLOGY, WEIHAI	Shandong, China			
	ool of Information Science and Engineering	<i>5</i> ,			
	helor of Electronic Information Engineering	Sept. 2016 to June 2020			
	<b>GPA</b> : 89.85/100	•			
	Rank of Major courses: 12/116				
	Scholarship: 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> Level People's Scholarship (six times)				
INTERNSHIP					
	angdong Sanweijia Information Technology Co., Ltd.	Guangdong, China			
	orithm Intern, pix2pixHD, pix2pix, GAN	40 hours/week, 4 weeks			
		· · · · · · · · · · · · · · · · · · ·			
	Build a coloring system based on pix2pixHD model to solve problems in coloring the ceramic tile.  Adopt other thesis' methods to optimize the coloring algorithm and achieve different results under certain				
	condition, which makes me get deeper understanding of the engineering and scientification.				
	learning, including jump connections adopted in the Generator net, modifying the los				
	Single-color-encode-RGB method instead of the traditional method.	ss function, adopting the			
	Single-color-cheode-ROD method histead of the traditional method.				
Chi	na DN Information Security Co. Ltd	Guandong China			
	na DN Information Security Co., Ltd.	Guandong, China			
Inte	rnet Security Intern Engineer: Python, Chatterbot, MongoDB	40 hours/week, 4 weeks			
	ernet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for trainin	40 hours/week, 4 weeks g, train robots with yamls and			
Inte	Prinet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of our content of the country of	40 hours/week, 4 weeks g, train robots with yamls and lata;			
	Prinet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver	40 hours/week, 4 weeks g, train robots with yamls and lata;			
	Prinet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;	40 hours/week, 4 weeks g, train robots with yamls and lata;			
	Prinet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver	40 hours/week, 4 weeks g, train robots with yamls and lata;			
	Prinet Security Intern Engineer: Python, Chatterbot, MongoDB  Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.	40 hours/week, 4 weeks g, train robots with yamls and lata;			
Inte	Designed the testing platform Athena 0.1.1 that could: generate yaml files for trainin general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies; Learned mongoDB, highly improved Python programming ability.  **ROJECTS** (In Chronological Order)*	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;			
Inte	Designed the testing platform Athena 0.1.1 that could: generate yaml files for trainin general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.  ROJECTS (In Chronological Order)  merate More Realistic Deepfake Videos	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;  Rochester, U.S.A.			
Inte	Designed the testing platform Athena 0.1.1 that could: generate yaml files for trainin general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.  **ROJECTS** (In Chronological Order)*  herate More Realistic Deepfake Videos*  rependent Researcher, Supervised by Dr. Yu Kong(MSU) and Dr. Matthew Wright (RIA).	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;  Rochester, U.S.A.  T) 50 hours/week, 30 weeks			
Inte	Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.  **ROJECTS** (In Chronological Order)*  Berate More Realistic Deepfake Videos*  **ependent Researcher**, Supervised by *Dr. Yu Kong(MSU)* and *Dr. Matthew Wright** (RIG)*  **Words: Multimodal Generation, Attributes Disentanglement, VAE, Modulated Convo	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;  Rochester, U.S.A.  T) 50 hours/week, 30 weeks luted Generator			
PR Ger Ind. Key	Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.  **ROJECTS** (In Chronological Order)*  Berate More Realistic Deepfake Videos**  **ependent Researcher**, Supervised by Dr. Yu Kong(MSU) and Dr. Matthew Wright (RIG)**  **Words**: Multimodal Generation, Attributes Disentanglement, VAE, Modulated Convolement Propose multiple attributes disentanglement method to extract visual features from a	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;  Rochester, U.S.A.  T) 50 hours/week, 30 weeks luted Generator udio.			
PR Ger Inde	Designed the testing platform Athena 0.1.1 that could: generate yaml files for training general database in mongodb, AI answering based on database, test the accuracy of a Applied python chatterbot api to encapsulate interface and provide mutual test to ver Composed a software manual for users in the companies;  Learned mongoDB, highly improved Python programming ability.  **ROJECTS** (In Chronological Order)*  Berate More Realistic Deepfake Videos**  **ependent Researcher**, Supervised by Dr. Yu Kong(MSU) and Dr. Matthew Wright (RIV)*  Words: Multimodal Generation, Attributes Disentanglement, VAE, Modulated Convological Propose multiple attributes disentanglement method to extract visual features from a Incroporate probabilistic sampling strategy to traditional audio-visual mappings process.	40 hours/week, 4 weeks g, train robots with yamls and lata; ify and calculate accuracy;  Rochester, U.S.A.  T) 50 hours/week, 30 weeks luted Generator udio.  ess to bring diversity.			
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Assi	stant Research Words: X-LAN Adopt gradien Adopt our me Independently	Model Foresighted and Calibrated her, Cooperate with Yiming Hao (I.C.T., C.A.S.) N, X-transformer, Foresighted, Calibration ints penalty in sequential model to control the gradient spread, and increated in three different kinds of sequential model: X-LAN, meshed-mety adjust hundreds of model parameters experiments and cooperate to foropose an indicator measuring the extent of calibration and take charge	emory-transformer, AoAnet. finish eight versions algorithms.		
Inde	e Recognition ependent Rese Words: Deform Propose seven DFNv2 to sol resolutions, (3	under Various Environment Interference (Outstanding Bachorlo archer, Supervised by Dr. Gongliang Liu(HIT) mable Face Net, SEBlock, FH-GAN, Ring loss ral independently methods to overcome facial recognition difficulties: we occlusion problems, (2) use SEBlock as a channel selection for mo 3) combine FH-GAN with DFNv2 to handle small faces recognition, (all representations norm and image lighting, and use which to increase go	50 hours/week, 14 weeks (1) add supervisional signals in odel to adapt different (4) discover connections		
Class Check-in System Based on Face Recognition (Engineering Project)  Team Leader, Supervised by Dr. Gongliang Liu(HIT)  Shandong, China 30 hours/week, 20 weeks  Key Words: Facial Recognition, Image Super-resolution, Finetune  Program class check-in system for recognizing all attending students with just one picture in low resolution;  Reengineer at least 20 open sources to establish a sign-in system that can overcome problems in reality;  Finetune the Arcface Neural Network structure and enhance 10% recognition accuracy.  Won the first prize in the 2019 'Goertek's Cup' Innovation and Entrepreneurship Competition.  Won the second prize in the 2019 'Principal's Cup' Innovation and Entrepreneurship Competition.					
Assi	Researched and applied the reinforcement learning such as DQN, DDPG, policy gradient, etc. in the project to resolve problems such as discrete data and continuous data, randomness in the operation, etc.;				
Lan Prog Frai	ILLS guage: gramming: meworks: obies:	Chinese, English, Dutch (A0) Python, Matlab, C++, C Pytorch, TensorFlow Swimming, Table Tennis, Cooking, etc.			
<u>PA</u> •	Bangyu Lan, attributes, rej	SUBMISSION  , Yu Kong, Matthew Wright. Spontaneous facial motion generation by ected by WACV 2023  . Spontaneous Facial Motion Controllable Talking Face Generation, 20			

- Bangyu Lan. Class check-in system based on collective face recognition, 2020 Undergraduate Thesis
- Bangyu Lan. Re-finding the value of deep learning technology from a mathematical point of view, HIT Haite College Student Academic Forum 2018 (the Special Prize)

## PROFESSIONAL ACTIVITIES

• Conference Reviewer of ICCV 2022, CVPR 2022, AAAI 2022, ACM MM 2022, etc.