Chen-Zhu Xie

谢尘竹

Portfolio: 🗘 🔼 in

Contact: **∠** X

Scholar: D 💯

Personality: **(1)** INTP **AB**

EDUCATION

Degree	Major	Credential (Outer)	Masterpiece (Inner)	Grad. 🕒
Doctor of Philosophy	Optical Engineering	② Q.E Top 15%	Nonlinear Fourier Optics (27' 2025
L Thesis - Analytic 3	D vectorial linear non-un	iform & nonlinear Fourier	crystal optics in arbitrary $ar{ar{arepsilon}}, ar{ar{ar{\chi}}}$ diele	ctrics 🞧 🔟
Master 's Studies	Quantum Electronics	Courses Score - 93.5	THz (> 6G) OAM Source	24' 2022
☐ Affiliation - College	of Engineering and Applied	Sciences, Nanjing Universit	y, No.163 Xianlin Avenue , Nanjing, Jian	gsu, China 🔟
Bachelor of Science	Applied Physics	GPA Rank - 1/400	DDTank Auxiliary Tools	22' 2020
L Thesis - Research &	design of nonlinear hol	ography based on lithium	niobate 3D nonlinear photonic cryst	al 🞧 🔼
Freshman in College	Science	Sichuan Prov Top	2% 7 Notes → 3 Books (7)	18' 2016
1	Dhysias Callaga of Saigna	e. Northeastern University.	No.3-11 Wenhua Road , Shenyang, Liaon	ing, China 🔟
L Affiliation - School of	. Filysics, Conege of Science	, , , , , , , , , , , , , , , , , , , ,		
L Affiliation - School of	rnysics, conege of science	-, , ,		
L Affiliation - School of Degree	Major	Credential (Outer)	Masterpiece (Inner)	Grad. 🕒
		Credential (Outer)	Masterpiece (Inner) Nonlinear Fourier Optics •	Grad. (2) 27' 2025
Degree Doctor of Philosophy	Major Optical Engineering	Credential (Outer) Q.E Top 15%		27' 2025
Degree Doctor of Philosophy	Major Optical Engineering Ovectorial linear non-un	Credential (Outer) Q.E Top 15% iform & nonlinear Fourier	Nonlinear Fourier Optics 😱	27' 2025
Degree Doctor of Philosophy L Thesis - Analytic 33 Master 's Studies	Major Optical Engineering Ovectorial linear non-un Quantum Electronics	Credential (Outer) Q.E Top 15% iform & nonlinear Fourier Courses Score - 93.5	Nonlinear Fourier Optics $oldsymbol{f O}$ crystal optics in arbitrary $ar{ar{arepsilon}}, ar{ar{ar{\chi}}}$ dielectric dielectric crystal optics in arbitrary $ar{ar{arepsilon}}$	27' 2025 etrics
Degree Doctor of Philosophy L Thesis - Analytic 33 Master 's Studies	Major Optical Engineering Ovectorial linear non-un Quantum Electronics of Engineering and Applied	Credential (Outer) Q.E Top 15% Diform & nonlinear Fourier Courses Score - 93.5 Sciences, Nanjing Universit	Nonlinear Fourier Optics \mathbf{Q} crystal optics in arbitrary $\bar{\varepsilon}, \bar{\bar{\chi}}$ dielective (> 6G) OAM Source \mathbf{Q}	27' 2025 etrics
Degree Doctor of Philosophy L Thesis - Analytic 31 Master 's Studies L Affiliation - College of Bachelor of Science	Major Optical Engineering Divectorial linear non-un Quantum Electronics of Engineering and Applied Applied Physics	Credential (Outer) Q.E Top 15% diform & nonlinear Fourier Courses Score - 93.5 Sciences, Nanjing University GPA Rank - 1/400	Nonlinear Fourier Optics $\ \ \ \ \ \ \ \ \ \ \ \ \ $	27' 2025 ctrics
Degree Doctor of Philosophy L Thesis - Analytic 31 Master 's Studies L Affiliation - College of Bachelor of Science	Major Optical Engineering Ovectorial linear non-un Quantum Electronics of Engineering and Applied Applied Physics design of nonlinear hole	Credential (Outer) Q.E Top 15% diform & nonlinear Fourier Courses Score - 93.5 Sciences, Nanjing University GPA Rank - 1/400	Nonlinear Fourier Optics $\ \ \ \ \ \ \ \ \ \ \ \ \ $	27' 2025 ctrics

ACADEMIC FOCUS

Next generation high N.A. 3D vector non-uniform analytic linear & nonlinear Fourier crystal optics 📢	2024.06
93 Paraxial $k_0^\omega \Rightarrow ext{ High N.A.}$ 3D vector non-uniform analytic linear & nonlinear Fourier crystal optics $oldsymbol{f Q}$	2024.03
12 Emphasizing $G^\omega_{ ext{xyz}} \Rightarrow$ 3D vector non-uniform analytic linear & nonlinear Fourier crystal optics $oldsymbol{\Omega}$	2023.12
Involving $\overset{\mathbb{Z}}{\chi}^{(2)}_\omega$ anisotropy \Rightarrow Vector non-uniform analytic linear & nonlinear Fourier crystal optics $oldsymbol{\Omega}$	2023.06
103 !Unitary $G_{\omega}^{\pm} \Leftarrow$!Hermitian $\bar{\bar{\varepsilon}}_{\mathrm{r}}^{\omega} \Rightarrow \mathbf{Non\text{-}uniform}$ analytic linear & nonlinear Fourier crystal optics \mathbf{Q}	2023.03
Solution $\mathcal{F}\left[m{E}_{\omega}^{\pm}\right]$ to $\left(m{\nabla}^2+k_{\omega\pm}^2\right)m{E}_{\omega}^{\pm}\proptom{P}_{\omega\pm}^{(2)}\Leftrightarrow$ Analytic linear & nonlinear Fourier crystal optics $m{\Omega}$	2022.09
Solution $\mathcal{F}[E_3] = \mathcal{F}[f(\mathcal{F}^{-1}[\cdot])]$ to the Eq. below \Leftrightarrow Nonlinear angular spectrum theory for SFG \bigcirc	2022.06
O3 Solution $\mathcal{F}\left[E_{3}\right]=\iiint$ to $\left(\mathbf{\nabla}^{2}+k_{3}^{2}\right)E_{3}\left(r\right)\propto P_{3}^{\left(2\right)}\left(r\right)\Leftrightarrow$ Nonlinear convolution solution to SFG \P	2022.03

TEACHING

• Head Teaching Assistant at University Name

Spring 2019

Course Name (COURSE CODE)

• Teaching Assistant at University Name

Course Name (COURSE CODE)

Spring 2017

Skills

• Skill Group: List of technologie

• Skill Group: List of technologies

• Skill Group: List of technologies

• **Skill Group:** List of technologies

LANGUAGES

• Language: language proficiency level

- EXAM: details

• Language: language proficiency level

• Language: language proficiency level

PROJECTS

See full list of projects on example.com/projects

Project Title (Technology Used, 2019)
Short explanation of the project

Project Title (Technology Used, 2019)

Short explanation of the project

Honors & Awards

Academic Awards

Honorary Titles Lane © Excellent Bachelar Dissertation
© Excellent League Member
0.135

Northeastern University

Northeastern University

2019.11

2020.06

0.855

1

HONORARY TITLES

2019.11	Excellent League Member of 😱	Northeastern University
2018.12	Excellent Undergraduate Student of 📢	Northeastern University

COMPETITION AWARDS

2019.11	Excellent League Member 🜎	Northeastern University
2018.06	Excellent Undergraduate Student 🗘	Northeastern University

SCHOLARSHIPS FELLOWSHIPS

2019.04	JinChuan 1st scholarship - 5,000 rmb 😱	Northeastern University
2018.06	1st scholarship - 2,000 rmb 🕥	Northeastern University

Extracurricular Activities

Member at Some Club	2017-Current
Detailed explanation of what you do at this club	
Member at Some Club	2016-2017
Detailed explanation of what you do at this club	
Volunteer at Some Event	Fall 2019
Detailed explanation of what you do in this event	
Volunteer at Some Event	Winter 2015
Detailed explanation of what you do in this event	