Ancillary Unit Annual Review
Reporting Period: <u>July 1, 2022 – J</u>

Deadline for submission to Reporting Administrator: October 30

This report is required by FAM 105.4 – POLICY GUIDELINES FOR THE FORMATION AND REVIEW OF CSUSB ANCILLARY UNITS

Basic Information

Ancillary Unit's name	Center for Criminal Justice Research
Director(s)	Nerea Marteache
Administrator to whom the unit reports ("Reporting Administrator")	Christine Famega
Purpose and goals of the Ancillary Unit (from the original proposal or updated operating documents)	

Advisory Board

Please list your current Advisory Board, their positions outside the Advisory Board, and their roles on the Advisory Board (if applicable)	

Ancillary Unit Activity

Please summarize the top three (3) accomplishments of your Ancillary Unit (AU) during this reporting period. This should highlight the substantive activities that support and advance the purpose/goals of the AU, and the relationship between the activities and the purpose/goals.

Please highlight the most significant activities of the AU that engage the community or other entities on campus, if any.

Substantive Activities undertaken by the AU during reporting period

Activity (please describe)	Funds spent	Goal advanced (and extent)

Describe planned activities for the current academic year and how each of them will advance the purpose/goals of the AU.

Planned Activity	Connection to Purpose

Complete the Annual Use of Funds form

	Year 1		Year 2		Year 3	
	Internal	External	Internal	External	Internal	External
Salaries	$	$	$	$	$	$
Assigned Time	$	$	$ 12,200	$	$ 12,200	$
Travel	$	$	$	$	$	$
Supplies	$	$	$	$	$	$
Contractual	$	$	$	$	$	$
Other*	$ 46,913	$ 155,674	$	$ 210,967	$	$ 75,942

TOTAL	$ 46,913	$ 155,674	$ 12,200	$ 210,967	$ 12,200	$ 75,942

Other can include items such as: External Contracts, Grants, Sponsorships, Marketing and Outreach, Communications, Data Processing, Facilitates Operation, Printing, Postage

Additional Attachments

Certification

Nerea Marteache

Director Name

Director Signature

Unit Reporting Person recommendation
Name and title: Christina Hassija
Recommendation:	Active

Recommendations and comments including the criteria and data reviewed. Please attach additional page(s) as necessary.

The Center for Criminal Justice Research has been extremely active this past year

_____   Nov 2, 2023
                                                     _____

Unit Reporting Person Signature   **Date**

CENTER FOR CRIMINAL JUSTICE RESEARCH

CAL STATE SAN BERNARDINO

ANNUAL REPORT JUL. 2022 – JUN. 2023

1. GENERAL INFORMATION ABOUT THE CENTER FOR CRIMINAL JUSTICE RESEARCH

A. CCJR MISSION AND ORGANIZATION

During the 2022-23 AY the Center for Criminal Justice Research (CCJR) remained dedicated to servicing local community partners and providing research opportunities for faculty and students.

The Center consists of a Director (Dr. Nerea Marteache) and a Faculty Advisory Board (FAB) composed of six Criminal Justice faculty members, with representatives of all ranks: assistant, associate, and full professor. As of Fall 2023, the members of the FAB are:

- Dr. Gisela Bichler
- Dr. Nicole Collier
- Dr. Shuryo Fujita
- Dr. Zachary Powell
- Dr. John Reitzel
- Dr. Reveka Shteynberg

Every two years, two FAB members will step down to allow other Criminal Justice faculty the opportunity to participate in the Board. During the AY 2022-23 the FAB met five times to discuss CCJR business and to design the Center's activities: September and November 2022, and January, March, and May 2023.

B. ACTIVITIES

Three types of activities were conducted during the AY 2022-23 in addition to the normal research activities of the Center:

1. Community Engagement:
    a. Survey of research needs, created and approved by the FAB and deployed to Criminal Justice agencies and organizations in the Inland Empire in January 2023
    b. Research Fair at the School of Criminology and Criminal Justice with the participation of external agencies and organizations on April 14, 2023.
        - Criminal Justice faculty and students (graduate and undergraduate) created a total of 19 posters featuring their research and activities.
        - The Research Fair was carried out in conjunction with the Criminal Justice Career Fair. 31 agencies participated in the career fair, another 6 attended the event as community partners only, 200 students indicated they would attend (although more than that attended without RSVPing), and 16 students volunteered to help that day.
2. Training seminars for faculty:
    a. Fall 2022: "Establishing community partnerships". Attended by 3 faculty members.
    b. Spring 2023: "Academic poster-making workshop". Attended by 7 faculty members and 1 graduate student.
3. Meet-and-greet between graduate students and Criminal Justice faculty once per semester to foster engagement and mentorship.

a. October 6, 2022. Attended by 4 students and 6 faculty members.
b. March 6, 2023. Attended by 7 students and 5 faculty members.

C. INFRASTRUCTURE

In 2022 the Center was awarded a Vital and Expanded Technologies Initiative Grant ($13,813) to upgrade and purchase technologies in the CCJR Student Lab, with the purpose of creating more opportunities for High Impact Practices and career skill development through hands-on research experiences for undergraduate and graduate students. During the AY 2022-23 a total of 4 desktop computers, a printer, and a high-performance computer were installed and are now fully functional. The lock of the door providing access to SB 104, where the CCJR Student Lab is located, was replaced with an electronic lock to facilitate access to graduate and undergraduate students actively engaged in research projects. It became operational in June 2023.

D. BUDGET
We did not receive funding for operations from the College and the Director did not receive a course release for their work. **However, center activities <u>generated $202,587</u> to support research activity involving students ($46,913 internal grants and $ 155,674 external funds). In addition, this research activity <u>produced an additional $48,167 in indirect funds for UEC/CSUSB.</u>**

E. DALE K SECHREST MEMORIAL FUND.
Funds continued to accumulate.

2. DESCRIPTION OF FUNDED RESEARCH ACTIVITIES

A. INTERNAL FUNDING AWARDED

2022   CENTERS AND INSTITUTES SEED GRANT
- Goal: To build a research specialization within the CCJR focusing on Wildlife Crime
- PIs: Dr. Gisela Bichler and Dr. Nerea Marteache
- **Amount: $25,000**
- Activities:
  - Redesign the course Wildlife Crime (CJUS 5506) to make it a Service Learning Course
    - Completed; Course taught in Fall 2022.
    - Service Learning designation from the Chancellor's Office was obtained September 2022.
  - Project *Illegal Harvest of White Sage in the North Etiwanda Preserve.* This pilot study occurred in Fall 2022. The research team involved Dr. Nerea Marteache, Dr. Shuryo Fujita, and 6 undergraduate students (through CJUS 5506)
  - Project *Evolving Structure of Illegal, Undocumented, and Unregulated Fishing in Area 81: Understanding Ownership and Homophily Effects associated with High-Risk Transshipments 2015-2021.* Conducted throughout AY and summer term. The research team involved. Dr., Gisela Bichler, Dr. Nerea Marteache, Dr. Gohar Petrossian, and 2 graduate students
- **Scholarly products:**
  - Petrossian, G., Bichler, G., & Marteache, N. *The Cream of the Crop: Understanding the Ownership Structures and Spatial Behavioral Patterns of Carrier and Fishing Vessels*

Involved in High-Risk Transshipments. Presentation at the American Society of Criminology Conference, Atlanta, GA, November 2022.
- Viramontes, K., & Bichler, G. "Shadow Encounters in Area 81: Detecting Communities of IUU fishing from At-Sea Transshipment 2015-2021" Western Society of Criminology, Vancouver, CA, Feb. 2-4, 2023. [poster presentation- co-authored by a graduate student]
- [pending] Bichler, G., Petrossian, G.A., Marteache, N., & Viramontes, K., "Detecting Communities at High-Risk of IUU Fishing: Networks of Shadow Encounters in Area 81 of the Western Central Pacific." Status: immanent submission

2022 VITAL AND EXPANDED TECHNOLOGIES INITIATIVE GRANT
- Goal: To upgrade and purchase technologies in the CCJR Student Lab, with the purpose of creating more opportunities for High Impact Practices and career skill development through hands-on research experiences for undergraduate and graduate students
- **Amount: $13,813**
- Activities: Funds are being used to increase student workspace and to acquire technologies that allow for the secure storage and computational power for research projects

2022 ESTABLISHING COMMUNITY PARTNERSHIPS GRANT, funded by the Office of Community Engagement
- Goal: To increase community engagement and collaboration at the School of Criminology and Criminal Justice by organizing a one-day symposium in April 2023 with the participation of external agencies and organizations
- **Amount: $3,000**
- Funds will be used for a variety of activities: room reservation, catering, student support before and during the event, etc.

2022 COMMUNITY BASED RESEARCH GRANT, funded by the Office of Community Engagement
- Project: Illegal Exploitation of Wild Flora: Redwood Timber Poaching in Humboldt Redwoods State Park"
- PI: Dr. Nerea Marteache
- **Amount: $5,000**
- Scholarly products:
  - Pires, S., and Marteache, N. (under review). Split-Rail Theft in Humboldt Redwoods State Park: The Role of Roads and Other Environmental Features in Predicting Redwood Theft. *Forest Policy and Economics*.
  - Pires, S., and Marteache, N. *Natural Resource Theft in Humboldt Redwoods State Park: The Role of Roads and Other Environmental Features in Predicting Redwood Tree Theft.* Presentation at the American Society of Criminology Conference, Atlanta, GA, November 2022.

B. RESEARCH CONTRACTS

2022-2024 RIVERSIDE COUNTY PROBATION DEPARTMENT
- Project Diversity, Equity, and Inclusion Project Evaluation Services
- Co-PIs: Dr. Douglas Weiss, Dr. Alexis Norris, Dr. Gisela Bichler, and Dr. Nerea Marteache
- **Amount: $250,000**
- Project duration: July 1, 2022 – June 30, 2024
- 1 graduate student involved

C. **EXTERNAL FUNDING**

AWARDED

2022-2024   NATIONAL SCIENCE FOUNDATION.
- Project: EAGER: DCL: SaTC: Enabling Interdisciplinary Collaboration: Using NLP to Identify Suspicious Transactions in Omnichannel Online C2C Marketplaces
- Partnership: Rivas, Pablo (PI, Baylor University), Giddens, Laurie (Co-PI, University of North Texas), Bichler, Gisela (Co-PI, CSUSB), and Petter, Stacie (Co-PI, Wake Forest University)
- REU Amendment Awarded. Total amount: $314,284. Award # 2210091. **CSUSB subaward: $88,401**
- Project duration: 2022-2024
- 3 graduate students involved
- **Scholarly products (*graduate student co-authors):**
  - Rivas, P., Bichler, G., Cerny, T., Giddens, L., & Petters, S. (2022). Bottleneck-based Encoder-decoder ARchitecture (BEAR) for Learning Unbiased Consumer-to-Consumer Image Representations. Proceedings of the 39th International Conference on Machine Learning, Baltimore, Maryland, USA, PMLR 162.
  - Giddens, L., Petters, S., Bichler, G., Rivas, P., & Fullilove, M. (Jan. 2023). Navigating an Interdisciplinary Approach to Cybercrime Research, *Proceedings of the 56th Hawaii International Conference on System Sciences*. HICSS 2023, Hyatt Regency Maui, Hawaii, USA, 3-6, Maui, Hawaii, (ed.) Tung X. Bui, Honolulu, HI, pp. 3611-3620. https://hdl.handle.net/10125/103074
  - *Rodriguez Perez, A., Sooksatra, K., Rivas, P., Quevedo Caballero, E., Turek, J.S., Bichler, G., Cerny, T., Giddens, L., Petter, S. (2023). An Empirical Analysis Towards Replacing Vocabulary-Rigid Embeddings by a Vocabulary-Free Mechanism. *Proceedings of the 40th International Conference on Machine Learning*, Honolulu, Hawaii, USA. PMLR 202. https://openreview.net/pdf?id=Ku9S3MCZMq
  - Rivas, P., Bichler, G., Cerny, T., Giddens, L., & Petters, S. (2022). Bottleneck-based Encoder-decoder ARchitecture (BEAR) for Learning Unbiased Consumer-to-Consumer Image Representations. Proceedings of the 39th International Conference on Machine Learning, Baltimore, Maryland, USA, PMLR 162.
  - [pending] *Bichler, G., Rodriguez Perez, A., Petters, S., Viramontes, K., Rivas, P., Turek, J.S., Giddens, L., Sooksatra, K., Cerny, T., "Emojinal Bias: Human vs. AI coding of Ad Similarity for the Purpose of Training an Unsupervised NLP Human Trafficking Detection Model." Status: immanent submission
  - [pending] Bichler, G., Petters, S., Rivas, P., Giddens, L., & Cerny, T., "Systematic Review of Using Semi-supervised and Unsupervised Natural Language Models to Detect Suspected Human Trafficking from Classification of Escort Advertisements." Status: analysis

2020-2024   US DEPARTMENT OF JUSTICE, OFFICE OF JUSTICE PROGRAMS, NATIONAL INSTITUTE OF JUSTICE (Re-Award).
- Project: Gun Wars and Community Terrorization: Investigating Longitudinal Gang Violence in New Jersey from a Networked Perspective
- Principal Investigator: Jared Romeo Dmello, Ph.D. (Sam Houston University) and Co-Principal Investigators: Gisela Bichler, Ph.D. (California State University, San Bernardino); Arie Perliger, Ph.D. (University of Massachusetts Lowell).

- Original Award: September 2020. Amount: $435,020. Award # 2020-75-CX-0009. Re-award: July 2022; 15PNIJ-22-AG-00266-NIJB, **remaining balance of $278,976; CSUSB sub-award $47,244**
- Project duration: 2020-2024
- **Prior and pending scholarly products:**
  - Dmello, J.R., Bichler, G., Perliger, A., Sandra Garza, S., & Simon, R., (2021). Guns N' Roses: An Examination of Gang Violence Networks in New Jersey, Presentation at the American Society of Criminology Conference, Chicago, IL, November 2021.
  - Dmello, J.R., & Bichler, G., (2022). A Networked Approach to Gang Research: Lessons Learned from Two Communities. Presentation at the American Society of Criminology Conference, Atlanta, GA, November 2022.
  - Dmello, J. R., & Bichler, G. "Gang Violence in Situ: Contextualizing the Artefacts of Conflict to Support Network-based Interventions" Status: paper under revision.

FORTHCOMING

2023- 2027   NATIONAL SCIENCE FOUNDATION.
- D-ISN: Constraining Illicit Decision Making Within and Across Dynamic Supply Networks, NSF 21-582,
- Partnership: Bichler, Gisela (PI, CSUSB), Petter, Stacie (Co-PI, Wake Forest University) & Aros-Vera, Felipe (Co-PI, Ohio University).
- **Awarded Sept. 15, 2023**, Project period: August 1, 2023 to July 31, 2027; **Amount: $992,710.** Award # 2237907
- 2 graduate students involved

SUBMITTED (Unfunded)

2022   NATIONAL INSTITUTE OF JUSTICE. Research and Evaluation on Trafficking O-NIJ-2022-171189
- Project: Adapting to Supply Chain Disturbances: Operational Displacement in Human Trafficking
- Partnerships: Bichler, Gisela (PI), Giddens, Laurie (Co-PI, University of North Texas), and Petter, Stacie (Co-PI, Wake Forest University)
- **Target amount: $492,423**

2022   NATIONAL SCIENCE FOUNDATION, D-ISN
- Project: Modeling Incomplete and Adaptive Trafficking Networks for Effective Interdiction
- Partnership: PI: Jianxi Gao, (RPI); Co-PI: Felipe Aros-Vera (Ohio University); Co-PI: Gisela Bichler, (California State University San Bernardino)
- **Target amount: $1,000,000**

2022   SAVE THE REDWOODS LEAGUE
- Project: Can Cameras Prevent Redwood Split-Rail Theft in Humboldt Redwoods State Park?
- Co-PIs: Nerea Marteache and Stephen Pires
- **Target amount: $12,800**