

UNIVERSIDAD SAN FRANCISCO DE QUITO USFQ

Colegio de Musica (CoM)

Escena 1: Penguins

Escena 2: Charge

Daniela Abigail Sanmartín Portilla

Composición para Medios Contemporáneos

Trabajo de fin de carrera presentado como requisito
para la obtención del título de
Licenciada en Composición para Medios Contemporáneos

Quito, 25 de abril de 2025

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HOJA DE CALIFICACIÓN DE TRABAJO DE FIN DE CARRERA

Escena 1: Penguins

Escena 2: Charge

Daniela Abigail Sanmartín Portilla

Nombre del profesor, Título académico

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Quito, 25 de abril de 2025

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RESUMEN

Ambos cortometrajes son una síntesis de lo que he aprendido a lo largo de mi formación académica. Penguins, un documental de animación que retrata la vida en comunidad de los pingüinos, y Charge, una historia simbólica sobre la lucha por lo que realmente importa, son el resultado de una búsqueda constante por integrar imagen y sonido en una experiencia emocional única. Mi propósito era conseguir que quien se acercara a estas obras pudiera percibir, a través del oído, lo que sucede en la pantalla. Explorar esta conexión entre lo visual y lo sonoro representa, para mí, el primer avance significativo en el vasto universo de los medios audiovisuales.

Palabras clave: documental, pingüinos, comunidad, experiencia emocional, simbología, cortometraje.

ABSTRACT

Both short films are a synthesis of what I have learned throughout my academic training. Penguins, an animated documentary that portrays the community life of penguins, and Charge, a symbolic story about the struggle for what really matters, are the result of a constant search to integrate image and sound in a unique emotional experience.

My purpose was to ensure that those who approach these works can perceive, through the ear, what happens on the screen. Exploring this connection between the visual and the sound represents, for me, the first significant advance in the vast universe of audiovisual media.

Keywords: documentary, penguins, community, emotional experience, symbolism, short film.

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INTRODUCCIÓN

Este trabajo final surge del interés por explorar cómo la animación y el sonido pueden fusionarse para crear una experiencia emocional intensa en el espectador. A través de los cortometrajes *Penguins* y *Charge*, busco demostrar cómo el diseño sonoro, cuidadosamente integrado con la imagen, potencia el mensaje narrativo y genera una conexión sensorial genuina. Como afirma Chion (1994), el sonido en el cine "no solo se adhiere a la imagen: la modifica e interpreta".

Penguins retrata la vida comunitaria de los pingüinos en un entorno hostil. Con melodías sencillas, armonías profundas y cuerdas que evocan el frío, el diseño sonoro complementa lo visual y transmite su ritmo cotidiano. *Charge*, en cambio, presenta a un robot que, impulsado por el amor, busca salvar a su ser querido. Aquí, las melodías distinguen a los personajes, mientras que armonías graves y metales procesados refuerzan la tensión, evocando un universo mecánico frente a la calidez emocional. Como señala el Berklee College of Music (2005, p. 17), "La armonía es el componente emocional de la música...".

En las secciones siguientes se detallará el proceso técnico y creativo de ambos proyectos. Como plantean Paz y Miño (2017), impulsar lo audiovisual como exploración sensorial e identitaria es clave para expandir los límites del cine nacional.

ORQUESTACIÓN: PENGUINS

Voces:

- **Coros:** Spitfire – Labs – Choir – Long

Vientos:

- **Flute 1 y 2:** Spitfire – Bbc Symphony Orchestra
- **Oboe:** Spitfire – Bbc Symphony Orchestra

Piano:

- **Piano 1 y 2:** Spitfire – Labs – Glass Piano – Floe

Sintetizadores:

- **Pad Synthesizer 1:** Spitfire – Labs – Piano Pads – Water Organ

Harp:

- **Harp 1 y 2:** Spitfire – Bbc Symphony Orchestra

Cuerdas:

- **Violin 1, 2, 3 y 4:** Spitfire – Bbc Symphony Orchestra
- **Viola:** Spitfire – Bbc Symphony Orchestra
- **Cello:** Spitfire – Bbc Symphony Orchestra
- **Contrabass:** Spitfire – Bbc Symphony Orchestra

Penguins

Daniela Sanmartín

$\text{♩} = 120$

Choir

Flute 1

Flute 2

Oboe

Piano 1

Piano 2

Pad Synthesizer 1

Harp 1

Harp 2

Violin 1

Violin 2

Violin 3

Violin 4

Viola

Violoncello 1

Violoncello 2

Violoncello 3

Contrabass 1

Contrabass 2

[illegible]

[illegible]

4

46

C.

Fl. 1

Fl. 2

Ob.

Pno. 1

Pno. 2

Synth. 1

Hrp. 1

Hrp. 2

Vln. 1

Vln. 2

Vln. 3

Vln. 4

Vla.

Vc. 1

Vc. 2

Vc. 3

Cb. 1

Cb. 2

p *mf* *p* *mf*

p *mf* *p* *mf*

pp

p *mf* *p* *mf*

mf *p*

mf *p*

p *mf* *p* *mf*

p *mf* *p* *mf*

This musical score page contains measures 61 through 70. The instrumentation includes:

- C.**: Clarinet
- Fl. 1**, **Fl. 2**: Flutes
- Ob.**: Oboe
- Pno. 1**: Piano 1
- Pno. 2**: Piano 2
- Synth. 1**: Synthesizer 1
- Hrp. 1**: Harp 1
- Hrp. 2**: Harp 2
- Vln. 1**, **Vln. 2**, **Vln. 3**, **Vln. 4**: Violins
- Vla.**: Viola
- Ve. 1**, **Ve. 2**, **Ve. 3**: Cellos
- Cb. 1**, **Cb. 2**: Double Basses

The score features complex melodic lines for several instruments, particularly Pno. 2, Hrp. 1, Vln. 4, Vla., Ve. 1, Ve. 3, and Cb. 2. Dynamic markings such as *mf* (mezzo-forte), *f* (forte), *p* (piano), and *pp* (pianissimo) are used throughout. Measure numbers 61, 62, 63, 64, 65, 66, 67, 68, 69, and 70 are indicated at the top of each measure group.

76

C.

Fl. 1

Fl. 2

Ob.

Pno. 1

Pno. 2

Synth. 1

Hrp. 1

Hrp. 2

Vln. 1

Vln. 2

Vln. 3

Vln. 4

Vla.

Vc. 1

Vc. 2

Vc. 3

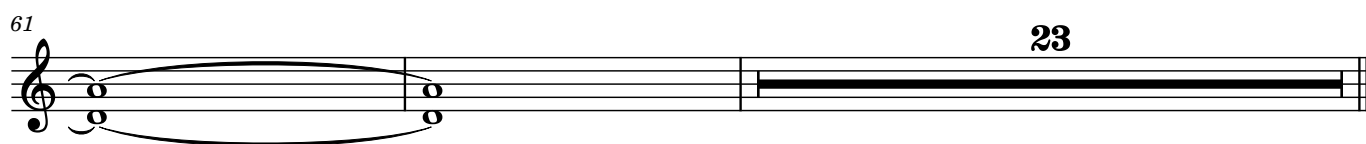
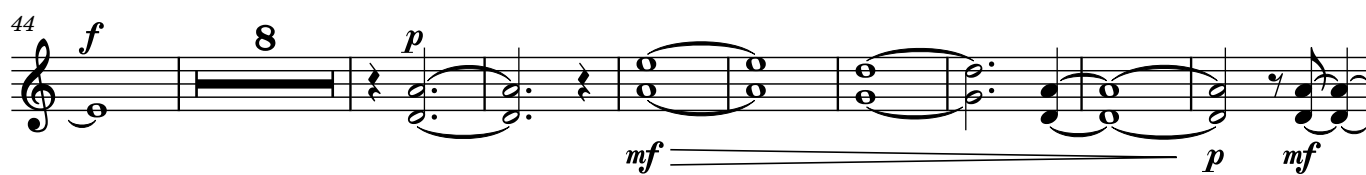
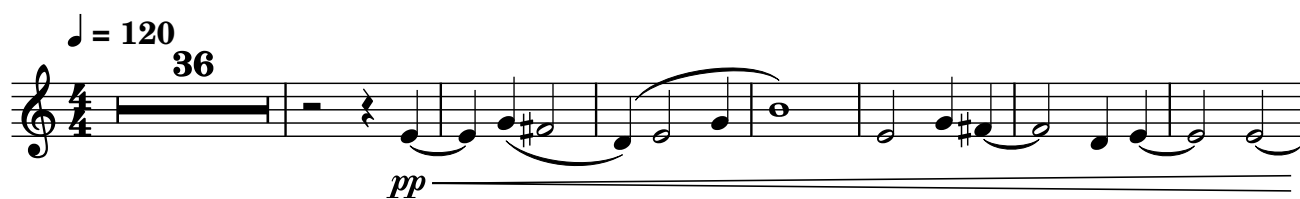
Cb. 1

Cb. 2

Choir

Penguins

Daniela Sanmartín



Flute 1

Penguins

Daniela Sanmartín

$\text{♩} = 120$

pp *pp* *mf* *mp* *p*

9 *f* *p* 21

37 *pp* *f*

46 29 *f*

81 1

Flute 2

Penguins

Daniela Sanmartín

♩ = 120 9

39

f *p*

54

mf *p* *mf* 23

Detailed description: The musical score is for Flute 2. The first system begins with a whole rest, followed by a quarter rest, then a series of eighth and sixteenth notes with a forte (f) dynamic. It ends with a half rest and a quarter note with a piano (p) dynamic. The second system starts with a half note, followed by a series of eighth and sixteenth notes with a mezzo-forte (mf) dynamic. It ends with a half rest and a quarter note with a mezzo-forte (mf) dynamic. The score is numbered 9, 39, 54, and 23.

Oboe

Penguins

Daniela Sanmartín

♩ = 120

23

p *mf*

32

50

f

Piano 1

Penguins

Daniela Sanmartín

♩ = 120

13

p

p

23

p

mf

mf

pp

33

f

16

mf

58

p

mf

23

Piano 2

Penguins

Daniela Sanmartín

♩ = 120

61 *mf*

68 *f*

76

81

1

Pad Synthesizer 1

Penguins

Daniela Sanmartín

♩ = 120

43

f

This musical system contains measures 43 through 52. It is written for a pad synthesizer in 4/4 time with a tempo of 120 beats per minute. The key signature has one flat (B-flat). Measure 43 begins with a whole rest in both staves. From measure 44 to 52, the right staff features a continuous melody of half notes, each beamed together in pairs and marked with a fermata. The left staff provides a simple accompaniment of eighth notes, also beamed in pairs. The dynamic marking *f* (forte) is indicated at the start of measure 44.

53

pp

31

This musical system contains measures 53 through 55. Measure 53 starts with a half note in the right staff, followed by a fermata. The left staff has a whole rest. Measures 54 and 55 consist of whole rests in both staves. The dynamic marking *pp* (pianissimo) is indicated at the start of measure 54. The system concludes with a double bar line and repeat dots. A measure number '31' is printed in the center of the system.

Harp 1

Penguins

Daniela Sanmartín

♩ = 120

13 *f*

21

28 *p* *mf*

58 *p* *mf* *mf*

67 *f* 13

Harp 2

Penguins

Daniela Sanmartín

♩ = 120

54 *mf* *p*

61

23

Daniela Sanmartín

$\text{♩} = 120$

11

22

32

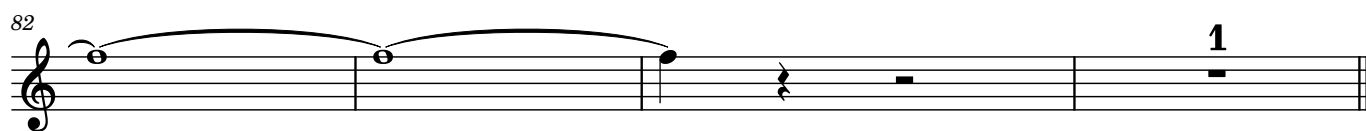
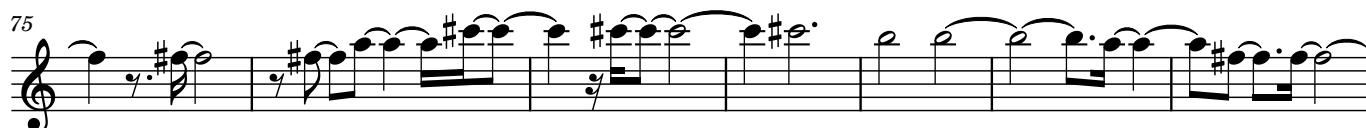
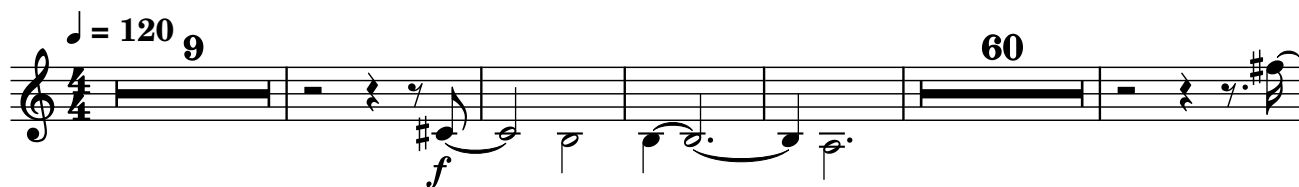
34

74

11

pp *mf* *p* *mf* *p* *p* *f* *mf* *f*

Daniela Sanmartín



Daniela Sanmartín

♩ = 120 54

mf

60

p 23

Daniela Sanmartín

$\text{♩} = 120$

11

22

33

42

67

78

pp *mf* *p* *mf*

p *p* *p* *mf*

f *pp*

f *p*

mf *f*

mf *f*

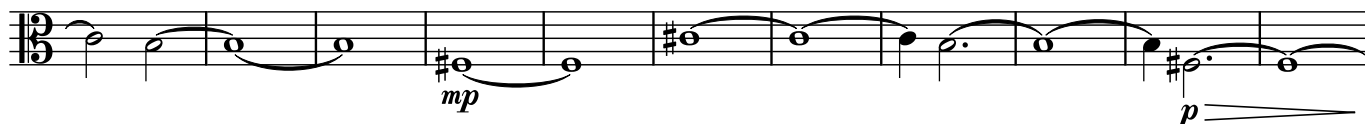
1

Daniela Sanmartín

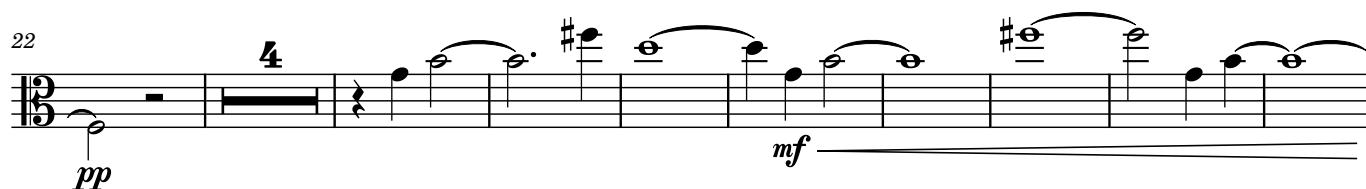
♩ = 120



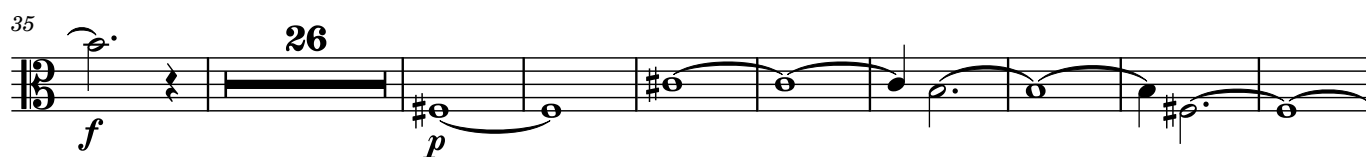
11



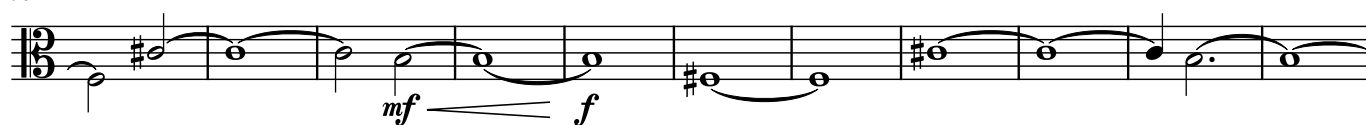
22



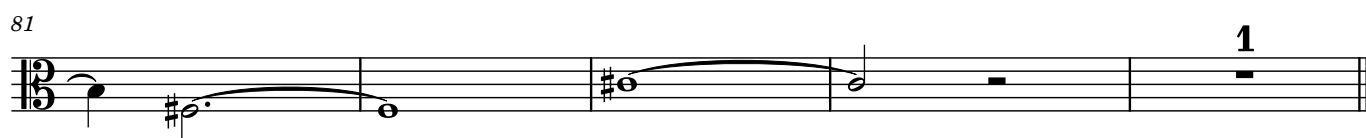
35



70



81



Violoncello 1

Penguins

Daniela Sanmartín

♩ = 120

11

22

33

43

68

79

pp *mf* *p* *mf*

p *p* *mf*

f *pp*

f *pp*

f *mf* *f*

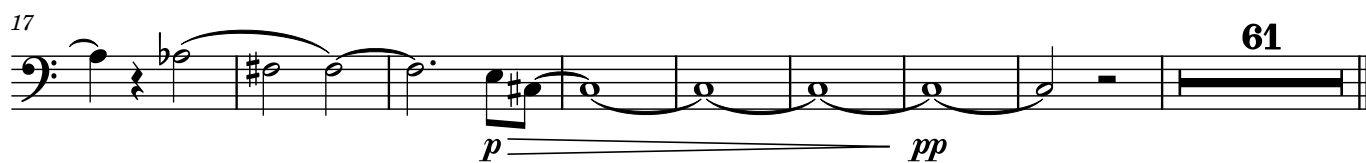
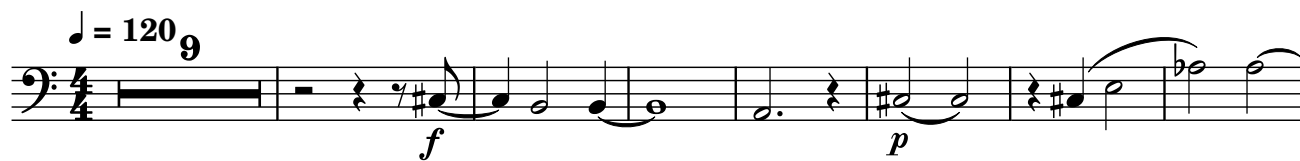
f *mf* *f*

1

16

1

Daniela Sanmartín



Violoncello 3

Penguins

Daniela Sanmartín

♩ = 120

52

p *mf* *p* *mf*

61

7

mf *f*

76

82

1

The musical score is written for Violoncello 3 in 4/4 time, with a tempo of 120 beats per minute. The piece is titled 'Penguins' and is by Daniela Sanmartín. The score is divided into four systems. The first system begins at measure 52 and ends at measure 60. It starts with a whole rest, followed by a series of eighth and quarter notes. Dynamic markings include *p* (piano), *mf* (mezzo-forte), *p*, and *mf*. The second system starts at measure 61 and ends at measure 75. It begins with a whole rest, followed by a series of eighth and quarter notes. Dynamic markings include *mf* and *f* (forte). The third system starts at measure 76 and ends at measure 81. It features a series of eighth and quarter notes. The fourth system starts at measure 82 and ends at measure 83. It begins with a whole rest, followed by a single note. A dynamic marking of '1' is present at the end of the system.

$\text{♩} = 120$

pp *mf* *p* *mf*

11 *p* *p*

22 *pp* *pp*

44 *f* *p*

70

81 1

$\text{♩} = 120$ **9**

10

f *p*

26

17

mf *f*

53

p *mf* *p* *mf*

63

7

mf *f*

77

1

ORQUESTACIÓN: CHARGE

Vientos:

- **Flute 1:** Spitfire – Bbc Symphony Orchestra
- **Horn 1, 2, 3 Y 4:** Spitfire – Bbc Symphony Orchestra
- **Trumpet:** Spitfire – Bbc Symphony Orchestra
- **Tuba:** Spitfire – Bbc Symphony Orchestra

Percusión:

- **Drums 1:** Native Instruments – Kontakt – Action Strikes/Basic Accents A-8th Triplet
Feel/C1
- **Drums 2:** Native Instruments – Kontakt – Action Strikes/ Basic Accents A-8th
Triplet Feel/D1
- **Drums 3:** Native Instruments – Kontakt – Action Strikes/Basic Accents A-8th Triplet
Feel/C1
- **Drums 4:** Native Instruments – Kontakt – Action Strikes/Basic Accents A-8th Triplet
Feel/C1
- **Drums 5:** Native Instruments – Kontakt – Action Strikes/Orquestal Percussion
- **Drums 6:** Native Instruments – Kontakt – Action Strikes/Basic Accents A-8th Triplet
Feel/D1
- **Tam-Tam:** Spitfire – Bbc Symphony Orchestra

Piano:

- **Piano:** Native Instruments – Kontakt – The Maverick

Sintetizadores:

- **Synthesizer:** Native Instruments – Kontakt- Ethereal Earth
- **Efect Synthesizer 1 Y 2:** Native Instruments – Kontakt- Evolve Mutations
- **Pad Synthesizer 1:** Native Instruments – Kontakt – Retro Machines Mk2/Sound Variations (5)
- **Pad Synthesizer 1:** Spitfire – Labs – Modular Pianos/09 Chiff Pipe & Artefacts
- **Pad Synthesizer 2:** Spitfire – Labs – Glass Piano – Floe
- **Pad Synthesizer 3:** Spitfire – Labs – Modular Piano/02 Granular Wurli
- **Bass Synthesizer:** Native Instruments – Kontakt – Retro Machines Mk2
- **Violin Synth1:** Native Instruments – Kontakt – Action Strings – Haunted
- **Violin Synth 2:** Native Instruments – Kontakt – Action Strings – Thunder Storm
- **Violin Synth 3:** Native Instruments – Kontakt – Action Strings – Rumbling Thunder

Guitar:

- **Electric Guitar:** Native Instruments – Kontakt – Session Guitarist Electric Sunburst Deluxe/Ibiza C1 (Open)

Harp:

- **Harp :** Spitfire – Bbc Symphony Orchestra

Cuerdas:

- **Violin 1, 2 y 3:** Spitfire – Bbc Symphony Orchestra
- **Viola:** Spitfire – Bbc Symphony Orchestra
- **Cello:** Spitfire – Bbc Symphony Orchestra
- **Contrabass:** Spitfire – Bbc Symphony Orchestra

Charge

Daniela Sanmartín

J = 120

Flute

Horn in C 1

Horn in C 2

Horn in C 3

Horn in C 4

Trumpet in B♭

Tuba

Drums 1

Drums 2

Drums 3

Drums 4

Drums 5

Drums 6

Tam-tam

Piano

Synthesizer

Effect Synthesizer 1

Effect Synthesizer 2

Pad Synthesizer 1

Pad Synthesizer 2

Pad Synthesizer 3

Bass Synthesizers Earth

Violin synth 1

Violin synth 2

Electric Guitar

Harp

Violin 1

Violin 2

Violin 3

Violin 4

Viola

Cello

Contrabass

[illegible]

This page of a musical score is for a symphony, featuring a variety of instruments. The score is written in 4/4 time and includes a key signature of one sharp (F#). The instruments listed on the left are:

- Fl. (Flute)
- Hn. in C 1 (Horn in C 1)
- Hn. in C 2 (Horn in C 2)
- Hn. in C 3 (Horn in C 3)
- Hn. in C 4 (Horn in C 4)
- Tpt. in Bb (Trumpet in Bb)
- Tbn. (Trombone)
- Perc. Org. (Percussion Organ)
- Perc. Org. (Percussion Organ)
- Perc. Org. (Percussion Organ)
- Perc. Org. (Percussion Organ)
- Perc. Org. (Percussion Organ)
- Perc. Org. (Percussion Organ)
- Tam. (Tambourine)
- Pno. (Piano)
- Synth. (Synthesizer)
- Synth. 1 (Synthesizer 1)
- Synth. 2 (Synthesizer 2)
- Synth. 1 (Synthesizer 1)
- Synth. 2 (Synthesizer 2)
- Synth. 3 (Synthesizer 3)
- Synth. (Synthesizer)
- Vln. ath 1 (Violin, arch 1)
- Vln. ath 2 (Violin, arch 2)
- El. Guit. (Electric Guitar)
- Hrp. (Harp)
- Vln. 3 (Violin 3)
- Vln. 4 (Violin 4)
- Vln. 5 (Violin 5)
- Vln. 6 (Violin 6)
- Vla. (Viola)
- Vc. (Violoncello)
- Cb. (Double Bass)

The score includes musical notation, dynamics, and tempo markings. The tempo markings are:

- $\text{♩} = 123$
- $\text{♩} = 124$
- $\text{♩} = 125$
- $\text{♩} = 126$
- $\text{♩} = 200$
- $\text{♩} = 120$
- $\text{♩} = 200$

The dynamics include *f* (forte), *p* (piano), *mf* (mezzo-forte), and *mp* (mezzo-piano). The score also includes a variety of musical notation, including notes, rests, and articulation marks.

The image displays a page from a musical score, likely for a symphony or concert suite. The page features multiple staves for different instruments, arranged vertically. The top staff is labeled "Fl." (Flute). Below it are staves for "Hn. in C 1", "Hn. in C 2", "Hn. in C 3", "Hn. in C 4", "Tpt. in Bb", and "Tbn.". Further down are staves for "Perc. Org.", "Tam.", "Pno.", "Synth.", "Synth. 1", "Synth. 2", "Synth. 3", "Vln. sth 1", "Vln. sth 2", "El. Guitt.", "Hrp.", "Vln. 3", "Vln. 4", "Vln. 5", "Vln. 6", "Vla.", "Vc.", and "Cb.". The music is written in G major (one sharp) and 6/8 time. The tempo is indicated as "♩ = 140". The score includes various musical notations such as notes, rests, beams, and dynamic markings like "p" (piano), "f" (forte), and "mp" (mezzo-piano). The page number "64" is visible in the top left corner.

85

Fl.

Hn. in C 1

Hn. in C 2

Hn. in C 3

Hn. in C 4

Tpt. in Bb

Tbn.

Perc. Org.

Perc. Org.

Perc. Org.

Perc. Org.

Perc. Org.

Perc. Org.

Tam.

Pno.

Synth.

Synth. 1

Synth. 2

Synth. 1

Synth. 2

Synth. 3

Synth.

Vln. sth 1

Vln. sth 2

El. Guit.

Hrp.

Vln. 3

Vln. 4

Vln. 5

Vln. 6

Vla.

Vc.

Cb.

6

Daniela Sanmartín

39 $\text{♩} = 120$ $\text{♩} = 190$ $\text{♩} = 123$ $\text{♩} = 124$

46 $\text{♩} = 125$ $\text{♩} = 126$ $\text{♩} = 200$

53 $\text{♩} = 120$ $\text{♩} = 200$

60

65 9 $\text{♩} = 140$ $\text{♩} = 150$ $\text{♩} = 200$

110 $\text{♩} = 121$

119

f *p* *f* *f* *p* *f*

Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200 4 ♩ = 120 1

57 ♩ = 200 1

f

67 ♩ = 140 9 20

p

103 ♩ = 150 ♩ = 200 8 ♩ = 121 6

Daniela Sanmartín

$\text{♩} = 120$ $\text{♩} = 190$ $\text{♩} = 123$ $\text{♩} = 124$ $\text{♩} = 125$ $\text{♩} = 126$ $\text{♩} = 200$ $\text{♩} = 120$
 39 4 1 3 1 1 4 1

[illegible]

67

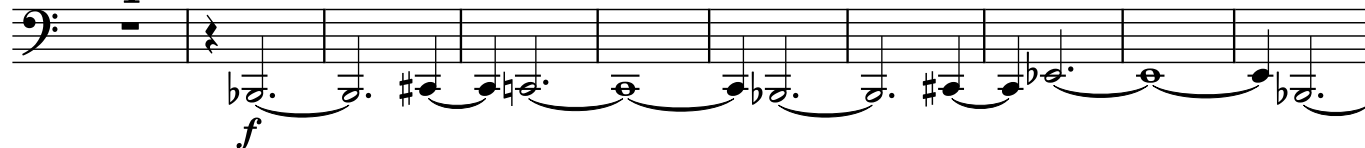
9 $\text{♩} = \frac{140}{29}$ $\text{♩} = \frac{150}{2}$ $\text{♩} = \frac{200}{9}$ $\text{♩} = \frac{121}{6}$

Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200 4 ♩ = 120 1

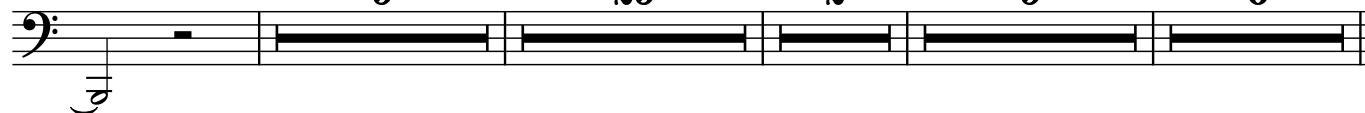


57 ♩ = 200 1



67

9 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6



Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200 4 ♩ = 120 1

57 ♩ = 200 1

63 3 9

77 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200 4

56 ♩ = 120 1 ♩ = 200 1 *f*

63 9

77 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200

52

♩ = 120 1 ♩ = 200 20 ♩ = 140 29

106 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

Daniela Sanmartín

Drum 1 score for "Charge" by Daniela Sanmartín.

The score is written for a single drum line in 4/4 time, featuring various rhythmic patterns and dynamics.

First System (Measures 1-8):

- Tempo: $\text{♩} = 120$
- Measure 1: Rest, then a 10-measure rest.
- Measure 2: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 3: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 4: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 5: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 6: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 7: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 8: Quarter note, quarter rest, quarter note, quarter rest.

Second System (Measures 9-16):

- Measure 9: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 10: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 11: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 12: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 13: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 14: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 15: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 16: Quarter note, quarter rest, quarter note, quarter rest.

Third System (Measures 17-24):

- Measure 17: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 18: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 19: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 20: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 21: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 22: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 23: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 24: Quarter note, quarter rest, quarter note, quarter rest.

Fourth System (Measures 25-32):

- Measure 25: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 26: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 27: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 28: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 29: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 30: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 31: Quarter note, quarter rest, quarter note, quarter rest.
- Measure 32: Quarter note, quarter rest, quarter note, quarter rest.

Measure Numbers and Dynamics:

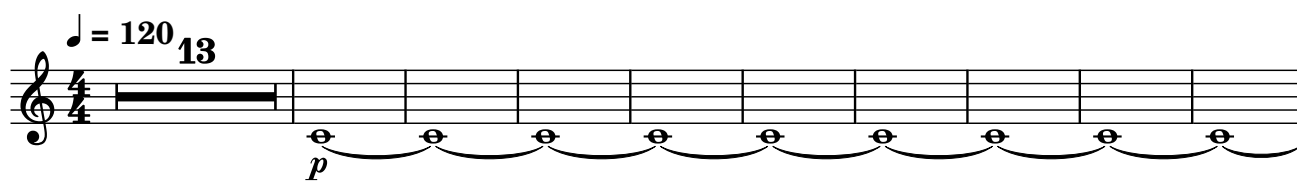
- Measure 1: $\text{♩} = 120$
- Measure 2: $\text{♩} = 120$
- Measure 3: $\text{♩} = 120$
- Measure 4: $\text{♩} = 120$
- Measure 5: $\text{♩} = 120$
- Measure 6: $\text{♩} = 120$
- Measure 7: $\text{♩} = 120$
- Measure 8: $\text{♩} = 120$
- Measure 9: $\text{♩} = 120$
- Measure 10: $\text{♩} = 120$
- Measure 11: $\text{♩} = 120$
- Measure 12: $\text{♩} = 120$
- Measure 13: $\text{♩} = 120$
- Measure 14: $\text{♩} = 120$
- Measure 15: $\text{♩} = 120$
- Measure 16: $\text{♩} = 120$
- Measure 17: $\text{♩} = 120$
- Measure 18: $\text{♩} = 120$
- Measure 19: $\text{♩} = 120$
- Measure 20: $\text{♩} = 120$
- Measure 21: $\text{♩} = 120$
- Measure 22: $\text{♩} = 120$
- Measure 23: $\text{♩} = 120$
- Measure 24: $\text{♩} = 120$
- Measure 25: $\text{♩} = 120$
- Measure 26: $\text{♩} = 120$
- Measure 27: $\text{♩} = 120$
- Measure 28: $\text{♩} = 120$
- Measure 29: $\text{♩} = 120$
- Measure 30: $\text{♩} = 120$
- Measure 31: $\text{♩} = 120$
- Measure 32: $\text{♩} = 120$

Measure Numbers and Dynamics:

- Measure 1: $\text{♩} = 120$
- Measure 2: $\text{♩} = 120$
- Measure 3: $\text{♩} = 120$
- Measure 4: $\text{♩} = 120$
- Measure 5: $\text{♩} = 120$
- Measure 6: $\text{♩} = 120$
- Measure 7: $\text{♩} = 120$
- Measure 8: $\text{♩} = 120$
- Measure 9: $\text{♩} = 120$
- Measure 10: $\text{♩} = 120$
- Measure 11: $\text{♩} = 120$
- Measure 12: $\text{♩} = 120$
- Measure 13: $\text{♩} = 120$
- Measure 14: $\text{♩} = 120$
- Measure 15: $\text{♩} = 120$
- Measure 16: $\text{♩} = 120$
- Measure 17: $\text{♩} = 120$
- Measure 18: $\text{♩} = 120$
- Measure 19: $\text{♩} = 120$
- Measure 20: $\text{♩} = 120$
- Measure 21: $\text{♩} = 120$
- Measure 22: $\text{♩} = 120$
- Measure 23: $\text{♩} = 120$
- Measure 24: $\text{♩} = 120$
- Measure 25: $\text{♩} = 120$
- Measure 26: $\text{♩} = 120$
- Measure 27: $\text{♩} = 120$
- Measure 28: $\text{♩} = 120$
- Measure 29: $\text{♩} = 120$
- Measure 30: $\text{♩} = 120$
- Measure 31: $\text{♩} = 120$
- Measure 32: $\text{♩} = 120$

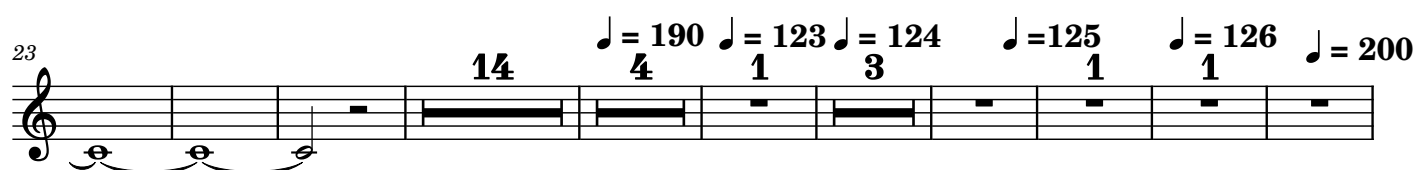
Daniela Sanmartín

♩ = 120 **13**



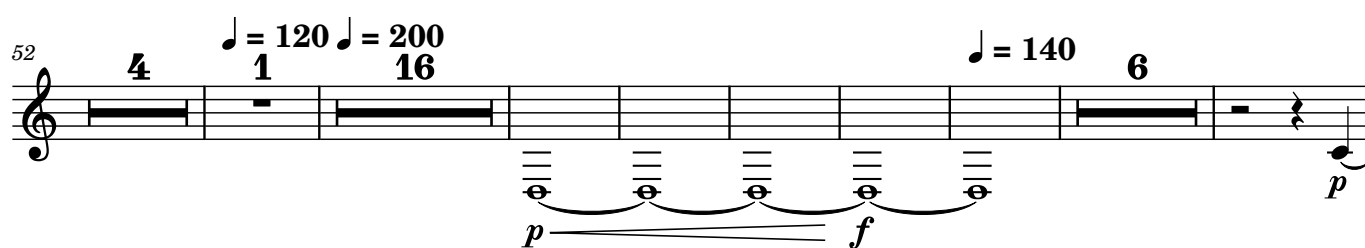
23

♩ = 190 **14** ♩ = 123 **4** ♩ = 124 **1** ♩ = 125 **3** ♩ = 126 **1** ♩ = 200 **1**



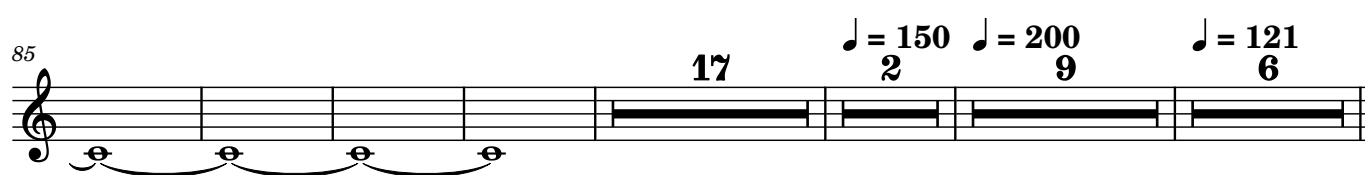
52

♩ = 120 **4** ♩ = 200 **1** ♩ = 160 **16** ♩ = 140 **6**



85

♩ = 150 **17** ♩ = 200 **2** ♩ = 121 **9** ♩ = 121 **6**



Daniela Sanmartín

♩ = 120 37 2 ♩ = 190 ♩ = 123 ♩ = 124

47 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120 1

57 ♩ = 200 20 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

f *p* *f*

Drum 4

Charge

Daniela Sanmartín

$\text{♩} = 120$ **39** $\text{♩} = 190$ **4** $\text{♩} = 123$ **1** $\text{♩} = 124$ **3** $\text{♩} = 125$ **1** $\text{♩} = 126$ **1** $\text{♩} = 200$ **4** $\text{♩} = 120$ **1**

$\text{♩} = 200$ **4** $\text{♩} = 140$ **9** $\text{♩} = 140$ **29**

57

f

$\text{♩} = 150$ **2** $\text{♩} = 200$ **9** $\text{♩} = 121$ **6**

106

Daniela Sanmartín

♩ = 120 39 ♩ = 190 4 ♩ = 123 1 ♩ = 124 3 ♩ = 125 1 ♩ = 126 1 ♩ = 200 4 ♩ = 120 1

57 ♩ = 200 1

68 9 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

[illegible]

34 $\mathbf{6}$ $\text{♩} = 190$ $\text{♩} = 123$ $\text{♩} = 124$ $\text{♩} = 125$ $\text{♩} = 126$ $\text{♩} = 200$ $\mathbf{4}$ $\text{♩} = 120$

57 $\text{♩} = 200_{20}$ $\text{♩} = 140_{29}$ $\text{♩} = 150_2$ $\text{♩} = 200_9$ $\text{♩} = 121_6$

Tam-tam

Charge

Daniela Sanmartín

Handwritten musical notation for a piece titled "Charge" by Daniela Sanmartín. The notation is written on a single staff with a key signature of one sharp (F#) and a 4/4 time signature. The piece is divided into measures, with some measures containing rests and others containing notes. The notation includes dynamic markings such as *p* (piano) and *f* (forte). The piece is marked with measure numbers 13, 19, 40, 58, and 59. The notation is written in a style that suggests it is a handwritten score, with some measures containing rests and others containing notes. The piece is marked with measure numbers 13, 19, 40, 58, and 59. The notation is written in a style that suggests it is a handwritten score, with some measures containing rests and others containing notes. The piece is marked with measure numbers 13, 19, 40, 58, and 59.

Handwritten musical notation for a piece titled "Charge" by Daniela Sanmartín. The notation is written on a single staff with a key signature of one sharp (F#) and a 4/4 time signature. The piece is divided into measures, with some measures containing rests and others containing notes. The notation includes dynamic markings such as *p* (piano) and *f* (forte). The piece is marked with measure numbers 13, 19, 40, 58, and 59. The notation is written in a style that suggests it is a handwritten score, with some measures containing rests and others containing notes. The piece is marked with measure numbers 13, 19, 40, 58, and 59. The notation is written in a style that suggests it is a handwritten score, with some measures containing rests and others containing notes. The piece is marked with measure numbers 13, 19, 40, 58, and 59.

Charge

Daniela Sanmartín

♩ = 120

12 1

p *f* *f*

22

1

mf ♩ = 190

32

p *f* ♩ = 126 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200

42

2 1

p *f* *mp* *f*

53

2 3

mf *f* ♩ = 120 ♩ = 200

66

mp *p*

Charge

Daniela Sanmartín

♩ = 120

12 4

p *f*

25 ♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120

15 4 1 3 1 1 4 1

57 ♩ = 200 ♩ = 140 ♩ = 150 ♩ = 200 ♩ = 121

20 29 2 9 3

f

Daniela Sanmartín

♩ = 120 ♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120

System 1 (Measures 1-10):

Measure	Duration (s)
1	39
2	4
3	1
4	3
5	
6	1
7	1
8	
9	4
10	1

System 2 (Measures 57-64):

Measure	Duration (s)
57	20
58	29
59	2
60	9
61	3
62	
63	
64	

f

Daniela Sanmartín

♩ = 120

2

pp

13

♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200

26 4 1 3 1 1 4

56

♩ = 120 ♩ = 200 ♩ = 140 ♩ = 150 ♩ = 200 ♩ = 121

1 20 29 2 9 6

Daniela Sanmartín

♩ = 120

2

pp

13

10

p

2

mf

8

40

♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120 ♩ = 200

4 1 3 1 1 4 1 20

77

♩ = 140 ♩ = 150 ♩ = 200 ♩ = 121

29 2 9 6

Daniela Sanmartín

♩ = 120 ♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120

39 4 1 3 1 1 1 4 1

57 ♩ = 200 ♩ = 140 ♩ = 150 ♩ = 200

20 29 2

p

114 ♩ = 121

3

f

Daniela Sanmartín

♩ = 120

6 19

p

34

♩ = 190

1

f

44

♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120 ♩ = 200

1 3 2

mf *f* *mf*

58

2 1 11

f

77

♩ = 140 ♩ = 150 ♩ = 200 ♩ = 121

29 2 9 6

Daniela Sanmartín

♩ = 120 **32**

♩ = 190

p *f*

42

1 1 3 1 1 1 200 4 1

♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120

57

♩ = 200 20 ♩ = 140 29 ♩ = 150 2 ♩ = 200 9 ♩ = 121 6

Daniela Sanmartín

$\text{♩} = 120$ 39 $\text{♩} = 190$ 4 $\text{♩} = 123$ 1 $\text{♩} = 124$ 3 $\text{♩} = 125$ 1 $\text{♩} = 126$ 1 $\text{♩} = 200$ 4 $\text{♩} = 120$ 1

57 $\text{♩} = 200$ 13 $\text{♩} = 140$ 28

p *f* *p*

106 $\text{♩} = 150$ 2 $\text{♩} = 200$ 9 $\text{♩} = 121$ 6

Daniela Sanmartín

$\text{♩} = 120$ 39
 $\text{♩} = 190$ 4
 $\text{♩} = 123$ 1
 $\text{♩} = 124$ 3
 $\text{♩} = 125$ 1
 $\text{♩} = 126$ 1
 $\text{♩} = 200$

52
 $\text{♩} = 120$ 1
 $\text{♩} = 200$ 20

77
 $\text{♩} = 140$ 29
 $\text{♩} = 150$ 2
 $\text{♩} = 200$ 9
 $\text{♩} = 121$ 6

Daniela Sanmartín

♩ = 120 39

♩ = 190 *p* *mf* *f*

♩ = 123 ♩ = 124

46 8

♩ = 125 ♩ = 126 ♩ = 200 4 ♩ = 120 ♩ = 200 1 1

58 8 *f*

64 8

9 ♩ = 140 29 ♩ = 150 2

108 8

♩ = 200 9 ♩ = 121 3 *f*

Daniela Sanmartín

♩ = 120 ♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126 ♩ = 200 ♩ = 120

39 4 1 3 1 1 4 1

57 ♩ = 200 ♩ = 140 D C# Bb E F G A

20 24 *p* 1 1 1

106 ♩ = 150 ♩ = 200 ♩ = 121

9 6 9 6 6

Daniela Sanmartín

Violin 1 score for "Charge" by Daniela Sanmartín, measures 39-77. The score is written in 4/4 time and includes dynamic markings (*p*, *mf*, *f*) and tempo markings (♩ = 120, ♩ = 190, ♩ = 123, ♩ = 124, ♩ = 125, ♩ = 126, ♩ = 200, ♩ = 120, ♩ = 200, ♩ = 140, ♩ = 150, ♩ = 200, ♩ = 121).

Measures 39-46: *p* (piano), *mf* (mezzo-forte), *f* (forte). Tempo markings: ♩ = 120, ♩ = 190, ♩ = 123, ♩ = 124.

Measures 47-54: Tempo markings: ♩ = 125, ♩ = 126, ♩ = 200, ♩ = 120, ♩ = 200. Measure 54 includes a 4-measure rest.

Measures 55-77: Tempo markings: ♩ = 140, ♩ = 150, ♩ = 200, ♩ = 121. Measure 77 includes a 6-measure rest.

Daniela Sanmartín

Violin 2 score for "Charge" by Daniela Sanmartín, measures 1-110. The score is written in 4/4 time and includes various dynamics and tempo markings.

Measures 1-11: $\text{♩} = 120$, 2 . Dynamics: *pp* to *mf*.

Measures 12-19: Measure 12 starts with a *p* dynamic. Measure 19 has a *f* dynamic.

Measures 40-49: Measure 40 has a $\text{♩} = 190$ marking. Measures 41-42 have a *p* dynamic. Measures 43-44 have a $\text{♩} = 123$ marking and a *mf* dynamic. Measures 45-46 have a $\text{♩} = 124$ marking and a *f* dynamic. Measures 47-48 have a $\text{♩} = 125$ marking. Measures 49-50 have a $\text{♩} = 126$ marking.

Measures 51-59: Measure 51 has a $\text{♩} = 200$ marking. Measures 52-53 have a 4 measure rest. Measures 54-55 have a $\text{♩} = 120$ marking and a 1 measure rest. Measures 56-57 have a $\text{♩} = 200$ marking and a 20 measure rest. Measures 58-59 have a $\text{♩} = 140$ marking and a 7 measure rest. Measures 60-61 have a *p* dynamic.

Measures 88-97: Measure 88 has a *mf* dynamic. Measure 89 has a *p* dynamic.

Measures 98-104: Measures 98-104 are marked with a $\text{♩} = 150$ tempo.

Measures 105-110: Measures 105-106 are marked with a $\text{♩} = 200$ tempo. Measures 107-108 have an 8 measure rest. Measures 109-110 have a $\text{♩} = 121$ tempo and a 6 measure rest.

Daniela Sanmartín

Violin 3 score for "Charge" by Daniela Sanmartín, measures 1 to 116. The score is written in 4/4 time and includes various dynamics and tempo markings.

Measures 1-11: Tempo marking $\text{♩} = 120$ with a $\frac{2}{2}$ time signature. Dynamics: *pp* (measures 1-5), *mf* (measures 6-11).

Measures 12-19: Measure 12 starts with a *p* dynamic. Measure 19 has a *f* dynamic. A $\frac{2}{2}$ time signature is present above measure 19.

Measures 40-49: Measure 40 has a tempo marking $\text{♩} = 190$. Measures 41-49 have tempo markings $\text{♩} = 123$, $\text{♩} = 124$, $\text{♩} = 125$, and $\text{♩} = 126$ respectively. Dynamics: *p* (measures 40-41), *mf* (measures 42-43), *f* (measures 44-49).

Measures 51-59: Measure 51 has a tempo marking $\text{♩} = 200$. Measures 52-59 have tempo markings $\text{♩} = 120$, $\text{♩} = 200$, $\text{♩} = 140$, and $\text{♩} = 120$ respectively. Dynamics: *p* (measures 51-59). Time signatures $\frac{4}{4}$, $\frac{1}{2}$, $\frac{20}{20}$, and $\frac{7}{7}$ are indicated above measures 52, 53, 54, and 55 respectively.

Measures 88-97: Measure 88 has a tempo marking $\text{♩} = 120$. Measure 97 has a tempo marking $\text{♩} = 140$. Dynamics: *mf* (measures 88-94), *p* (measures 95-97).

Measures 105-116: Measure 105 has a tempo marking $\text{♩} = 150$. Measure 106 has a tempo marking $\text{♩} = 200$. Measure 116 has a tempo marking $\text{♩} = 121$. Dynamics: *p* (measures 105-116). Time signatures $\frac{8}{8}$ and $\frac{6}{6}$ are indicated above measures 115 and 116 respectively.

Daniela Sanmartín

$\text{♩} = 120$
2

pp *mf*

12 19 *p* *f*

40 $\text{♩} = 190$ $\text{♩} = 123$ $\text{♩} = 124$ $\text{♩} = 125$ $\text{♩} = 126$
p *mf* *f*

51 $\text{♩} = 200$ 4 $\text{♩} = 120$ $\text{♩} = 200$ $\text{♩} = 140$
1 20 7
p

88 *mf* *p*

98

105 $\text{♩} = 150$ $\text{♩} = 200$ 8 6 $\text{♩} = 121$

Daniela Sanmartín

♩ = 120
2

pp *mf*

12 19 *p* *f*

40 ♩ = 190 ♩ = 123 ♩ = 124 ♩ = 125 ♩ = 126
p *mf* *f*

51 ♩ = 200 4 ♩ = 120 1 ♩ = 200 20 ♩ = 140 7 *p*

88 *mf* *p*

98 ♩ = 150

108 ♩ = 200 *p*

117 ♩ = 121 *f* 2

$\text{♩} = 120$
2

pp *mf*

12 19

p *f*

40 $\text{♩} = 190$ $\text{♩} = 123$ $\text{♩} = 124$ $\text{♩} = 125$ $\text{♩} = 126$

p *mf* *f*

51 $\text{♩} = 200$ 4 $\text{♩} = 120$ $\text{♩} = 200$ $\text{♩} = 140$
1 20 7

p

88 *mf* *p*

98

105 $\text{♩} = 150$ $\text{♩} = 200$ 8 $\text{♩} = 121$
6

CONCLUSIONES

Al componer, uno de los aprendizajes más valiosos fue entender que menos es más. No es necesario recurrir a numerosos instrumentos ni a una percusión constante para transmitir emociones profundas. Descubrí que los momentos más minimalistas una melodía única o un tono discreto fueron los que generaron mayor impacto. Esto refuerza la idea de que la música no debe competir con la imagen, sino acompañarla; y que, en ocasiones, el silencio comunican mucho más.

Como señala Kulezic-Wilson (2015), la musicalidad en el cine "no siempre proviene de la complejidad del sonido, sino de su capacidad para unirse de manera orgánica y significativa con la imagen". Este hallazgo fortaleció mi interés por seguir explorando la economía de recursos como base creativa en futuros proyectos audiovisuales.

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